

ONIS "TREY" GLENN, III
DIRECTOR



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BOB RILEY
GOVERNOR

SEP 24 2009

Richard Peterson, Superintendent
The Utilities Board of the City of Foley
Post Office Box 2050
Foley, AL 36536

RE: Draft Permit
NPDES Permit No. AL0049042
Foley WWTP
Baldwin County, Alabama

Dear Mr. Peterson:

Transmitted herein is a draft of the referenced permit.

We would appreciate your comments on the permit within **30 days** of the date of this letter. Please direct any comments of a technical or administrative nature to the undersigned.

By copy of this letter and the draft permit, we are also requesting comments within the same time frame from EPA.

The Alabama Department of Environmental Management encourages you to voluntarily consider pollution prevention practices and alternatives at your facility. Pollution Prevention may assist you in complying with effluent limitations, and possibly reduce or eliminate monitoring requirements.

Should you have any questions, please contact the undersigned by email at mssmith@adem.state.al.us or by phone at 334-270-5616.

Sincerely,

A handwritten signature in cursive script that reads "Marla Smith".

Marla Smith
Municipal Permit Section
Water Division

MSS/mfc
Enclosure

cc: Mr. Mark Nuhfer/Environmental Protection Agency
Ms. Elaine Snyder/U.S. Fish and Wildlife Service
Ms. Elizabeth Brown/Alabama Historical Commission
Advisory Council on Historic Preservation
Department of Conservation and Natural Resources

Birmingham Branch
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (Fax)

Decatur Branch
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (Fax)



Mobile Branch
2204 Perimeter Road
Mobile, AL 36615-1131
(251) 450-3400
(251) 479-2593 (Fax)

Mobile - Coastal
4171 Commanders Drive
Mobile, AL 36615-1421
(251) 432-6533
(251) 432-6598 (Fax)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: THE UTILITIES BOARD OF THE CITY OF FOLEY
POST OFFICE BOX 2050
FOLEY, ALABAMA 36536

FACILITY LOCATION: FOLEY WWTP (2.0 MGD/3.5 MGD)
1000 GREENTREE LANE
FOLEY, ALABAMA
BALDWIN COUNTY

PERMIT NUMBER: AL0049042

RECEIVING WATERS: WOLF CREEK

In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§1251-1378 (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, §§ 22-22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §§22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to discharge into the above-named receiving waters.

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

Draft

MUNICIPAL SECTION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT

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ATTACHMENT:
FORM 421

NON-COMPLIANCE NOTIFICATION FORM

PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. Outfall 0012 Discharge Limits—2.0 MGD

During the period beginning on the effective date of this permit and lasting through the completion of the facility upgrade and initiation of Outfall 0013, the Permittee is authorized to discharge from Outfall 0012, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitation*					Monitoring Requirements**					
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Oxygen, Dissolved (DO)	*****	*****	*****	*****	7.0 mg/l	*****	*****	E	GRAB	C	*****
pH	*****	*****	*****	*****	6.0 S.U.	8.5 S.U.	*****	E	GRAB	C	*****
Solids, Total Suspended	Report lbs/day	Report lbs/day	Report mg/l	Report mg/l	*****	*****	*****	I	COMP24	C	*****
Solids, Total Suspended	500 lbs/day	750 lbs/day	30.0 mg/l	45.0 mg/l	*****	*****	*****	E	COMP24	C	*****
Nitrogen, Ammonia Total (As N)	100 lbs/day	150 lbs/day	6.0 mg/l	9.0 mg/l	*****	*****	*****	E	COMP24	C	W
Nitrogen, Ammonia Total (As N)	63.3 lbs/day	95.0 lbs/day	3.8 mg/l	5.7 mg/l	*****	*****	*****	E	COMP24	C	S
Nitrogen, Kjeldahl Total (As N)	Report lbs/day	Report lbs/day	Report mg/l	Report mg/l	*****	*****	*****	E	COMP24	G	*****
Nitrite Plus Nitrate Total 1 Det. (As N)	Report lbs/day	Report lbs/day	Report mg/l	Report mg/l	*****	*****	*****	E	COMP24	G	*****
Phosphorus, Total (As P)	Report lbs/day	Report lbs/day	Report mg/l	Report mg/l	*****	*****	*****	E	COMP24	G	*****
Flow, In Conduit or Thru Treatment Plant	Report MGD	*****	*****	*****	*****	REPORT MGD	*****	E	CONTIN	A	*****
Coliform, Fecal General	*****	*****	*****	*****	*****	200 col/100mL	*****	E	GRAB	C	*****
BOD, Carbonaceous 05 Day, 20C	Report lbs/day	Report lbs/day	Report mg/l	Report mg/l	*****	*****	*****	I	COMP24	C	*****
BOD, Carbonaceous 05 Day, 20C	100 lbs/day	150 lbs/day	6.0 mg/l	9.0 mg/l	*****	*****	*****	E	COMP24	C	S
BOD, Carbonaceous 05 Day, 20C	216 lbs/day	325 lbs/day	13.0 mg/l	19.5 mg/l	*****	*****	*****	E	COMP24	C	W
Solids, Suspended Percent Removal	*****	*****	*****	*****	*****	*****	85.0	K	CALCTD	G	*****

*See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

Q - For Effluent Toxicity Testing, see Provision IV.B.

(FC) Fecal Coliform: Monthly Avg

October through May - 1000 col/100mL

June through September - 200 col/100mL

Seasonal Limits:

S = Summer (May - November)

W = Winter (December - April)

2. Outfall 0013 Discharge Limits—3.5 MGD

During the period beginning on the termination date of Outfall 0012 and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 0013, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitation*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Oxygen, Dissolved (DO)											
00300 1 0 0	*****	*****	*****	*****	7.0 mg/l	*****	*****	E	GRAB	C	*****
pH					6.0 S.U.	8.5 S.U.	*****	E	GRAB	C	*****
00400 1 0 0	*****	*****	*****	*****	*****	*****	*****	I	COMP24	C	*****
Solids, Total Suspended	Report lbs/day	Report lbs/day	Report mg/l	Report mg/l	*****	*****	*****	E	COMP24	C	*****
00530 G 0 0	875 lbs/day	1313 lbs/day	30.0 mg/l	45.0 mg/l	*****	*****	*****	E	COMP24	C	*****
Solids, Total Suspended											
00530 1 0 0	58.3 lbs/day	87.5 lbs/day	2.0 mg/l	3.0 mg/l	*****	*****	*****	E	COMP24	C	S
Nitrogen, Ammonia Total (As N)											
00610 1 0 0	87.5 lbs/day	131 lbs/day	3.0 mg/l	4.5 mg/l	*****	*****	*****	E	COMP24	C	W
Nitrogen, Ammonia Total (As N)											
00610 1 0 0	116 lbs/day	175 lbs/day	4.0 mg/l	6.0 mg/l	*****	*****	*****	E	COMP24	C	S
Nitrogen, Kjeldahl Total (As N)											
00625 1 0 0	175 lbs/day	262 lbs/day	6.0 mg/l	9.0 mg/l	*****	*****	*****	E	COMP24	C	W
Nitrogen, Kjeldahl Total (As N)											
00625 1 0 0	Report lbs/day	Report lbs/day	Report mg/l	Report mg/l	*****	*****	*****	E	COMP24	G	*****
Nitrite Plus Nitrate Total 1 Det. (As N)											
00630 1 0 0	Report lbs/day	Report lbs/day	Report mg/l	Report mg/l	*****	*****	*****	E	COMP24	G	*****
Phosphorus, Total (As P)											
00665 1 0 0	Report lbs/day	Report lbs/day	Report mg/l	Report mg/l	*****	*****	*****	E	CONTIN	A	*****
Flow, In Conduit or Thru Treatment Plant											
50050 1 0 0	Report MGD	*****	*****	*****	*****	200 col/100mL	*****	E	GRAB	C	*****
Coliform, Fecal General											
74055 1 0 0	Report lbs/day	Report lbs/day	Report mg/l	Report mg/l	*****	*****	*****	I	COMP24	C	*****
BOD, Carbonaceous 05 Day, 20C											
80082 G 0 0	204 lbs/day	306 lbs/day	7.0 mg/l	10.5 mg/l	*****	*****	*****	E	COMP24	C	S
BOD, Carbonaceous 05 Day, 20C											
80082 1 0 0	291 lbs/day	437 lbs/day	10.0 mg/l	15.0 mg/l	*****	*****	*****	E	COMP24	C	W
BOD, Carbonaceous 05 Day, 20C											
80082 1 0 0	*****	*****	*****	*****	*****	*****	85.0	K	CALCTD	G	*****
Solids, Suspended Percent Removal											
81011 K 0 0											

*See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration

from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week F - 2 days per month

B - 5 days per week G - 1 day per month

C - 3 days per week H - 1 day per quarter

D - 2 days per week I - Annual

E - 1 day per week Q - For Effluent Toxicity

Testing, see Provision IV.B.

(FC) Fecal Coliform: Monthly Avg
October through May - 1000 col/100mL
June through September - 200 col/100mL

Seasonal Limits:

S = Summer (May - November)

W = Winter (December - April)

3. Outfall 001Q Discharge Limits

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 001Q, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitation*					Monitoring Requirements**					
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Mercury Total Recoverable (See Note 5)	*****	*****	Report ug/l	*****	*****	Report mg/l	*****	F	GRAB	H	*****

*See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration

from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

G - 1 day per month

H - 1 day per quarter

J - Annual

Q - For Effluent Toxicity

Testing, see Provision IV.B.

(FC) Fecal Coliform: Monthly Avg

October through May - 1000 col/100mL

June through September - 200 col/100mL

Seasonal Limits:

S = Summer (May - November)

W = Winter (December - April)

Note (5): EPA Methods 1631E/1669 or alternate methods specifically approved by the Department, shall be used for analysis of this parameter. Mercury monitoring will become no longer applicable if the Permittee submits four consecutive quarterly monitoring results, using the aforementioned approved EPA methods, demonstrating that mercury concentrations are below the method detection level. If monitoring is no longer applicable, enter "NODI=9" on the Discharge Monitoring Report (DMR).

4. Outfalls 001S and 002S Discharge Limits - Stormwater Outfalls

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfalls 001S and 002S, which are described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitation*					Monitoring Requirements**					
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Oxygen, Dissolved (DO)	*****	*****	*****	*****	Report mg/l	*****	*****	E	GRAB	J	*****
pH	*****	*****	*****	*****	Report S.U.	Report S.U.	*****	E	GRAB	J	*****
Solids, Total Suspended	*****	*****	*****	*****	*****	Report mg/l	*****	E	GRAB	J	*****
Nitrogen, Ammonia Total (As N)	*****	*****	*****	*****	*****	Report mg/l	*****	E	GRAB	J	*****
Nitrogen, Kjeldahl Total (As N)	*****	*****	*****	*****	*****	Report mg/l	*****	E	GRAB	J	*****
Nitrite Plus Nitrate Total i Det. (As N)	*****	*****	*****	*****	*****	Report mg/l	*****	E	GRAB	J	*****
Phosphorus, Total (As P)	*****	*****	*****	*****	*****	Report mg/l	*****	E	GRAB	J	*****
Flow, In Conduit or Thru Treatment Plant	*****	*****	*****	*****	*****	Report mg/l	*****	E	GRAB	J	*****
Coliform, Fecal General	*****	*****	*****	*****	*****	Report MGD	*****	E	GRAB	J	*****
BOD, Carbonaceous 05 Day, 20C	*****	*****	*****	*****	*****	Report col/100mL	*****	E	GRAB	J	*****
Oil and Grease	*****	*****	*****	*****	*****	Report mg/l	*****	E	GRAB	J	*****
	*****	*****	*****	*****	*****	15.0 mg/l	*****	E	GRAB	J	*****

*See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week F - 2 days per month

B - 5 days per week G - 1 day per month

C - 3 days per week H - 1 day per quarter

D - 2 days per week J - Annual

E - 1 day per week Q - For Effluent Toxicity Testing, see Provision IV.B.

(FC) Fecal Coliform: Monthly Avg.
October through May - 1000 col/100mL
June through September - 200 col/100mL

Seasonal Limits:

S = Summer (May - November)

W = Winter (December - April)

5. Outfall 001T Discharge Limits

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 001T, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitation*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Toxicity, Ceriodaphnia Chronic 61426 1 0 0	*****	Pass = 0 Fail = 1	*****	*****	*****	*****	*****	E	COMP24	Q	*****
Toxicity, Pimephales Chronic 61428 1 0 0	*****	Pass = 0 Fail = 1	*****	*****	*****	*****	*****	E	COMP24	Q	*****

*See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

(FC) Fecal Coliform: Monthly Avg

October through May - 1000 col/100mL

June through September - 200 col/100mL

Seasonal Limits:

S = Summer (May - November)

W = Winter (December - April)

Testing, see Provision IV.B.

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS**1. Representative Sampling**

Sample collection and measurement actions shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this permit. The effluent sampling point shall be at the nearest accessible location just prior to discharge and after final treatment, unless otherwise specified in the permit.

2. Measurement Frequency

Measurement frequency requirements found in Provision I.A. shall mean:

- a. Seven days per week shall mean daily.
- b. Five days per week shall mean any five days of discharge during a calendar weekly period of Sunday through Saturday.
- c. Three days per week shall mean any three days of discharge during a calendar week.
- d. Two days per week shall mean any two days of discharge during a calendar week.
- e. One day per week shall mean any day of discharge during a calendar week.
- f. Two days per month shall mean any two days of discharge during the month that are no less than seven days apart. However, if discharges occur only during one seven-day period in a month, then two days per month shall mean any two days of discharge during that seven day period.
- g. One day per month shall mean any day of discharge during the calendar month.
- h. Quarterly shall mean any day of discharge during each calendar quarter.
- i. The Permittee may increase the frequency of sampling, listed in Provisions I.B.2.a through I.B.2.h; however, all sampling results are to be reported to the Department.

3. Test Procedures

For the purpose of reporting and compliance, Permittees shall use one of the following procedures:

- a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance, however should EPA approve a method with a lower minimum level during the term of this permit the Permittee shall use the newly approved method.
- b. For pollutants parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based upon proper laboratory method and technique. Matrix-specific MLs must be approved by the Department, and may be developed by the Permittee during permit issuance, reissuance, modification, or during compliance schedule.

In either case the measured value should be reported if the analytical result is at or above the ML and "0" reported for values below the ML.

- c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit. For the purpose of calculating a monthly average, "0" shall be used for values reported less than the detection limit.

The Minimum Level utilized for procedures a and b above shall be reported on the Permittee's DMR. When an EPA approved test procedure for analysis of a pollutant does not exist, the Director shall approve the procedure to be used.

4. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the Permittee shall record the following information:

- a. The facility name and location, point source number, date, time and exact place of sampling;
 - b. The name(s) of person(s) who obtained the samples or measurements;
 - c. The dates and times the analyses were performed;
 - d. The name(s) of the person(s) who performed the analyses;
 - e. The analytical techniques or methods used, including source of method and method number; and
 - f. The results of all required analyses.
5. Records Retention and Production
- a. The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the above reports or the application for this permit, for a period of at least three years from the date of the sample measurement, report or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director or his designee, the Permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records should not be submitted unless requested.
 - b. All records required to be kept for a period of three years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.
6. Reduction, Suspension or Termination of Monitoring and/or Reporting
- a. The Director may, with respect to any point source identified in Provision I.A. of this permit, authorize the Permittee to reduce, suspend or terminate the monitoring and/or reporting required by this permit upon the submission of a written request for such reduction, suspension or termination by the Permittee, supported by sufficient data which demonstrates to the satisfaction of the Director that the discharge from such point source will continuously meet the discharge limitations specified in Provision I.A. of this permit.
 - b. It remains the responsibility of the Permittee to comply with the monitoring and reporting requirements of this permit until written authorization to reduce, suspend or terminate such monitoring and/or reporting is received by the Permittee from the Director.
7. Monitoring Equipment and Instrumentation
- All equipment and instrumentation used to determine compliance with the requirements of this permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices. At a minimum, flow measurement devices shall be calibrated at least once every 12 months.

C. DISCHARGE REPORTING REQUIREMENTS

1. Reporting of Monitoring Requirements
- a. The Permittee shall conduct the required monitoring in accordance with the following schedule:
 - (1) **MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY** shall be conducted during the first full month following the effective date of coverage under this permit and every month thereafter.
 - (2) **QUARTERLY MONITORING** shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The Permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring should be reported on the last DMR due for the quarter (i.e., March, June, September and December DMRs).
 - (3) **SEMIANNUAL MONITORING** shall be conducted at least once during the period of January through June and at least once during the period of July through December. The Permittee shall conduct the semiannual monitoring during the first complete calendar semiannual period following the effective date of this permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this permit, but it should be reported on the last DMR due for the month of the semiannual period (i.e., June and December DMRs).

- (4) **ANNUAL MONITORING** shall be conducted at least once during the period of January through December. The Permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be reported on the December DMR.
- b. The Permittee shall submit discharge monitoring reports (DMRs) on the forms provided by the Department and in accordance with the following schedule:
- (1) **REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING** shall be submitted on a monthly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.
- (2) **REPORTS OF QUARTERLY TESTING** shall be submitted on a quarterly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.
- (3) **REPORTS OF SEMIANNUAL TESTING** shall be submitted on a semiannual basis. The reports are due on the 28th day of JANUARY and the 28th day of JULY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.
- (4) **REPORTS OF ANNUAL TESTING** shall be submitted on an annual basis. Unless specified elsewhere in the permit, the first report is due on the 28th day of JANUARY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.
- c. The DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit. If the Permittee, using approved analytical methods as specified in Provision I. B. 2. monitors any discharge from a point source for a limited substance identified in Provision I. A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR Form and the increased frequency shall be indicated on the DMR Form. In the event no discharge from a point source identified in Provision I. A. of this permit and described more fully in the Permittee's application occurs during a monitoring period, the Permittee shall report "No Discharge" for such period on the appropriate DMR Form.
- d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules and regulations, shall be signed by a "responsible official" of the Permittee as defined in ADEM Administrative Code Rule 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-.09 and shall bear the following certification:
- "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."**
- e. The Permittee may certify in writing that a discharge will not occur for an extended period of time and after such certification shall not be required to submit monitoring reports. Written notification of a planned resumption of discharge shall be submitted at least 30 days prior to resumption of the discharge. If an unplanned resumption of discharge occurs, written notification shall be submitted within 7 days of the resumption. In any case, all discharges shall comply with all provisions of this permit.
- f. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules, shall be addressed to:

**Alabama Department of Environmental Management
Municipal Section, Water Division
Post Office Box 301463
Montgomery, Alabama 36130-1463**

Certified and Registered Mail shall be addressed to:

**Alabama Department of Environmental Management
Municipal Section, Water Division
1400 Coliseum Boulevard**

Montgomery, Alabama 36110-2059

DMRs required to be submitted by this permit shall be addressed to:

**Alabama Department of Environmental Management
Enforcement Branch, Water Division
Post Office Box 301463
Montgomery, Alabama 36130-1463**

- g. If this permit is a reissuance, then the permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.C.1.b. above.

2. Noncompliance Notification

- a. The Permittee must notify the Department if, for any reason, the Permittee's discharge:

- (1) Does not comply with any daily minimum or maximum discharge limitation for an effluent characteristic specified in Provision I. A. of this permit which is denoted by an "(X)"
- (2) Potentially threatens human health or welfare,
- (3) Threatens fish or aquatic life
- (4) Causes an in-stream water quality criterion to be exceeded;
- (5) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a);
- (6) Contains a quantity of a hazardous substance that may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);
- (7) Exceeds any discharge limitation for an effluent parameter listed in Part I.A as a result of an unanticipated bypass or upset; or
- (8) Is an unpermitted direct or indirect discharge of a pollutant to a water of the state (Note that unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision)

The Permittee shall orally report any of the above occurrences, describing the circumstances and potential effects, to the Department within 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral report, the Permittee shall submit a written report to the Director or Designee, as provided in Provision I.C.2.c, no later than five days after becoming aware of the occurrence of such discharge or occurrence.

- b. If for any reason, the Permittee's discharge does not comply with any limitation of this permit, then the Permittee must submit a written report to the Director or Designee, as provided in Provision I.C.2.c below. This report must be submitted with the next Discharge Monitoring Report required to be submitted by Provision I.C.1 of this permit after becoming aware of the occurrence of such noncompliance.
- c. Form 421 must be submitted to the Director or Designee in accordance with Provisions I.C.2a. or b. The completed form must document the following information:
 - (1) A description of the discharge and cause of noncompliance;
 - (2) The period of noncompliance, including exact dates, times, and duration of the noncompliance. If not corrected by the due date of the written report, then the Permittee is to state the anticipated timeframe that is expected to transpire before the noncompliance is resolved; and
 - (3) A description of the steps taken by the Permittee and the steps planned to be taken by the Permittee to reduce or eliminate the noncompliant discharge, including all steps taken to prevent recurrence.

d. Immediate notification

The permittee shall provide notification to the Director, the public, the county health department, and any other affected entity such as public water systems, as soon as possible upon becoming aware of any notifiable sanitary sewer overflow. The Permittee shall also report notification of the noncompliance event to any other affected entity such as the public.

- e. The Permittee shall keep an updated record of all known wastewater discharge points that are not authorized as permitted outfalls, including but not limited to SSOs. The Permittee shall submit annual Municipal Water Pollution Prevention Plan (MWPP) reports to the Department each year by May 31st for the prior calendar year period beginning January 1st and ending December 31st. The Annual MWPP Reports shall contain a list of all

known wastewater discharge points that are not authorized as permitted outfalls and any discharges that occur prior to the headworks of the wastewater treatment plant covered by this permit. The MWPP shall also provide a list of any discharges reported in accordance with Provision I.C.2.a. The Permittee shall submit with its Annual MWPP Report the following information for each known unpermitted discharge that occurs:

- (1) The cause of the discharge;
 - (2) Date, duration and volume of discharge (estimate if unknown);
 - (3) Description of the source (e.g., manhole, lift station);
 - (4) Location of the discharge, by street address or any other appropriate method;
 - (5) The ultimate destination of the flow (e.g., surface waterbody, municipal separate storm sewer to surface waterbody). Location should be shown on a USGS quad sheet or copy thereof; and
 - (6) Corrective actions or plans to eliminate future discharges.
- f. The Permittee shall report SSO and other illicit or anomalous discharge events on Form 415 in accordance with Part I.C.2.a. This form is available on the ADEM web page or upon request from the Permittee.

D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. Anticipated Noncompliance

The Permittee shall give the Director written advance notice of any planned changes or other circumstances regarding a facility which may result in noncompliance with permit requirements.

2. Termination of Discharge

The Permittee shall notify the Director, in writing, when all discharges from any point source(s) identified in Provision I. A. of this permit have permanently ceased. This notification shall serve as sufficient cause for instituting procedures for modification or termination of the permit.

3. Updating Information

- a. The Permittee shall inform the Director of any change in the Permittee's mailing address or telephone number or in the Permittee's designation of a facility contact or office having the authority and responsibility to prevent and abate violations of the AWPCA, the Department's Rules and the terms and conditions of this permit, in writing, no later than ten (10) days after such change. Upon request of the Director or his designee, the Permittee shall furnish the Director with an update of any information provided in the permit application.
- b. If the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.

4. Duty to Provide Information

The Permittee shall furnish to the Director, within a reasonable time, any information which the Director or his designee may request to determine whether cause exists for modifying, revoking and re-issuing, suspending, or terminating this permit, in whole or in part, or to determine compliance with this permit.

E. SCHEDULE OF COMPLIANCE

1. Compliance with discharge limits

The Permittee shall achieve compliance with the discharge limitations specified in Provision I. A. in accordance with the following schedule:

COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

2. Schedule

No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

PART II OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

1. Facilities Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of the permit.

2. Best Management Practices (BMP)

- a. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director or his designee has granted prior written authorization for dilution to meet water quality requirements.
- b. The Permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 C.F.R. Section 112 if required thereby.
- c. The Permittee shall prepare, submit for approval and implement a BMP Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a significant potential for discharge, if so required by the Director or his designee. When submitted and approved, the BMP Plan shall become a part of this permit and all requirements of the BMP Plan shall become requirements of this permit.

3. Certified Operator

The Permittee shall not operate any wastewater treatment plant unless the competency of the operator to operate such plant has been duly certified by the Director pursuant to AWPCA, and meets the requirements specified in ADEM Administrative Code, Rule 335-10-1.

B. OTHER RESPONSIBILITIES

1. Duty to Mitigate Adverse Impacts

The Permittee shall promptly take all reasonable steps to mitigate and minimize or prevent any adverse impact on human health or the environment resulting from noncompliance with any discharge limitation specified in Provision I. A. of this permit, including such accelerated or additional monitoring of the discharge and/or the receiving waterbody as necessary to determine the nature and impact of the noncomplying discharge.

2. Right of Entry and Inspection

The Permittee shall allow the Director, or an authorized representative, upon the presentation of proper credentials and other documents as may be required by law to:

- (1) Enter upon the Permittee's premises where a regulated facility or activity or point source is located or conducted, or where records must be kept under the conditions of the permit;
- (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permits;
- (3) Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and
- (4) Sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

C. BYPASS AND UPSET

1. Bypass

- a. Any bypass is prohibited except as provided in b. and c. below:
- b. A bypass is not prohibited if:
 - (1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;
 - (2) It enters the same receiving stream as the permitted outfall; and
 - (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.

- c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision I. A. of this permit if:
 - (1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime (this condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and
 - (3) The Permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the Permittee is granted such authorization, and the Permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.
 - d. The Permittee has the burden of establishing that each of the conditions of Provision II. C. 1. b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a. and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.
2. Upset
- a. A discharge which results from an upset need not meet the discharge limitations specified in Provision I. A. of this permit if:
 - (1) No later than 24-hours after becoming aware of the occurrence of the upset, the Permittee orally reports the occurrence and circumstances of the upset to the Director or his designee; and
 - (2) No later than five (5) days after becoming aware of the occurrence of the upset, the Permittee furnishes the Director with evidence, including properly signed, contemporaneous operating logs, or other relevant evidence, demonstrating that:
 - (i) An upset occurred;
 - (ii) The Permittee can identify the specific cause(s) of the upset;
 - (iii) The Permittee's facility was being properly operated at the time of the upset; and
 - (iv) The Permittee promptly took all reasonable steps to minimize any adverse impact on human health or the environment resulting from the upset.
 - b. The Permittee has the burden of establishing that each of the conditions of Provision II C. 2. a. of this permit have been met to qualify for an exemption from the discharge limitations specified in Provision I. A. of this permit.

D. DUTY TO COMPLY WITH PERMIT, RULES, AND STATUTES

1. Duty to Comply

- a. The Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCA and the FWPCA and is grounds for enforcement action, for permit termination, revocation and reissuance, suspension, modification, or denial of a permit renewal application.
- b. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of the permit shall not be a defense for a Permittee in an enforcement action.
- c. The discharge of a pollutant from a source not specifically identified in the permit application for this permit and not specifically included in the description of an outfall in this permit is not authorized and shall constitute noncompliance with this permit.
- d. The Permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this permit or to minimize or prevent any adverse impact of any permit violation.
- e. Nothing in this permit shall be construed to preclude or negate the Permittee's responsibility to apply for, obtain, or comply with other Federal, State, or Local Government permits, certifications, or licenses or to preclude from obtaining other federal, state, or local approvals, including those applicable to other ADEM programs and regulations.

2. Removed Substances

Solids, sludges, filter backwash, or any other pollutant or other waste removed in the course of treatment or control of wastewaters shall be disposed of in a manner that complies with all applicable Department Rules.

3. Loss or Failure of Treatment Facilities

Upon the loss or failure of any treatment facilities, including but not limited to the loss or failure of the primary source of power of the treatment facility, the Permittee shall, where necessary to maintain compliance with the discharge limitations specified in Provision I. A. of this permit, or any other terms or conditions of this permit, cease, reduce, or otherwise control production and/or all discharges until treatment is restored. If control of discharge during loss or failure of the primary source of power is to be accomplished by means of alternate power sources, standby generators, or retention of inadequately treated effluent, the Permittee must furnish to the Director within six months a certification that such control mechanisms have been installed.

4. Compliance With Statutes and Rules

- a. This permit has been issued under ADEM Administrative Code, Chapter 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Boulevard Montgomery, Alabama 36110-2059.
- b. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

E. PERMIT TRANSFER, MODIFICATION, SUSPENSION, REVOCATION, AND REISSUANCE

1. Duty to Reapply or Notify of Intent to Cease Discharge

- a. If the Permittee intends to continue to discharge beyond the expiration date of this permit, the Permittee shall file a complete permit application for reissuance of this permit at least 180 days prior to its expiration. If the Permittee does not intend to continue discharge beyond the expiration of this permit, the Permittee shall submit written notification of this intent which shall be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Administrative Code Rule 335-6-6-.09.
- b. Failure of the Permittee to apply for reissuance at least 180 days prior to permit expiration will void the automatic continuation of the expiring permit provided by ADEM Administrative Code Rule 335-6-6-.06 and should the permit not be reissued for any reason any discharge after expiration of this permit will be an unpermitted discharge.

2. Change in Discharge

Prior to any facility expansion, process modification or any significant change in the method of operation of the Permittee's treatment works, the Permittee shall provide the Director with information concerning the planned expansion, modification or change. The Permittee shall apply for a permit modification at least 180 days prior to any facility expansion, process modification, any significant change in the method of operation of the Permittee's treatment works or other actions that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant or could result in an additional discharge point. This condition applies to pollutants that are or that are not subject to discharge limitations in this permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.

3. Transfer of Permit

This permit may not be transferred or the name of the Permittee changed without notice to the Director and subsequent modification or revocation and reissuance of the permit to identify the new Permittee and to incorporate any other changes as may be required under the FWPCA or AWPCA. In the case of a change in name, ownership or control of the Permittee's premises only, a request for permit modification in a format acceptable to the Director is required at least 30 days prior to the change. In the case of a change in name, ownership or control of the Permittee's premises accompanied by a change or proposed change in effluent characteristics, a complete permit application is required to be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership or control, he may decide not to modify the existing permit and require the submission of a new permit application.

4. Permit Modification and Revocation

- a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
 - (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or

- (3) If modification or revocation and reissuance is requested by the Permittee and cause exists, the Director may grant the request.
- b. This permit may be modified during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
 - (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
 - (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
 - (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
 - (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
 - (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
 - (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
 - (8) To agree with a granted variance under 301(c), 301(g), 301(h), 301(k), or 316(a) of the FWPCA or for fundamentally different factors;
 - (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
 - (10) When required by the reopener conditions in this permit;
 - (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);
 - (12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;
 - (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or
 - (14) When requested by the Permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules.

5. Termination

This permit may be terminated during its term for cause, including but not limited to, the following:

- a. Violation of any term or condition of this permit;
- b. The Permittee's misrepresentation or failure to disclose fully all relevant facts in the permit application or during the permit issuance process or the Permittee's misrepresentation of any relevant facts at any time;
- c. Materially false or inaccurate statements or information in the permit application or the permit;
- d. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;
- e. The Permittee's discharge threatens human life or welfare or the maintenance of water quality standards;
- f. Permanent closure of the facility generating the wastewater permitted to be discharged by this permit or permanent cessation of wastewater discharge;
- g. New or revised requirements of any applicable standard or limitation that is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA that the Director determines cannot be complied with by the Permittee; or
- h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

6. Suspension

This permit may be suspended during its term for noncompliance until the Permittee has taken action(s) necessary to achieve compliance.

7. Stay

The filing of a request by the Permittee for modification, suspension or revocation of this permit, in whole or in part, does not stay any permit term or condition.

F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a), for a toxic pollutant discharged by the Permittee, and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Provision I. A. of this permit or controls a pollutant not limited in Provision I. A. of this permit, this permit shall be modified to conform to the toxic pollutant effluent standard or prohibition, and the Permittee shall be notified of such modification. If this permit has not been modified to conform to the toxic pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the Permittee shall attain compliance with the requirements of the standard or prohibition within the time period required by the standard or prohibition and shall continue to comply with the standard or prohibition until this permit is modified or reissued.

G. NOTICE TO DIRECTOR OF INDUSTRIAL USERS

1. The Permittee shall not allow the introduction of wastewater, other than domestic wastewater, from a new direct discharger prior to approval and permitting, if applicable, of the discharge by the Department.
2. The Permittee shall not allow an existing indirect discharger to increase the quantity or change the character of its wastewater, other than domestic wastewater, prior to approval and permitting, if applicable, of the increased discharge by the Department.
3. The Permittee shall report to the Department any adverse impact caused or believed to be caused by an indirect discharger on the treatment process, quality of discharged water, or quality of sludge. Such report shall be submitted within seven days of the Permittee becoming aware of the adverse impacts.

H. PROHIBITIONS

The Permittee shall not allow, and shall take effective enforcement action to prevent and terminate, the introduction of any of the following into its treatment works by industrial users:

1. Pollutants which create a fire or explosion hazard in the treatment works;
2. Pollutants which will cause corrosive structural damage to the treatment works, or dischargers with a pH lower than 5.0 s.u., unless the works are specifically designed to accommodate such discharges;
3. Solid or viscous pollutants in amounts which will cause obstruction of flow in sewers, or other interference with the treatment works;
4. Pollutants, including oxygen demanding pollutants, released in a discharge of such volume or strength as to cause interference in the treatment works;
5. Heat in amounts which will inhibit biological activity in the treatment plant resulting in interference or in such quantities that the temperature of the treatment plant influent exceeds 40°C (104° F) unless the treatment plant is designed to accommodate such heat; and
6. Pollutants in amounts which exceed any applicable pretreatment standard under Section 307 of FWPCA or any approved revisions thereof.

PART III ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. CIVIL AND CRIMINAL LIABILITY

1. Tampering

Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under the permit shall, upon conviction, be subject to penalties as provided by the AWPCA.

2. False Statements

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be subject to penalties as provided by the AWPCA.

3. Permit Enforcement

- a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA, and as such, any terms, conditions, or limitations of the permit are enforceable under state and federal law.
- b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes:
 - (1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;
 - (2) An action for damages;
 - (3) An action for injunctive relief; or
 - (4) An action for penalties.
- c. If the Permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the Permittee has made a timely and complete application for reissuance of the permit:
 - (1) Initiate enforcement action based upon the permit which has been continued;
 - (2) Issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;
 - (3) Reissue the new permit with appropriate conditions; or
 - (4) Take other actions authorized by these rules and AWPCA.

4. Relief from Liability

Except as provided in Provision II. C. 1. (Bypass) and Provision II. C. 2. (Upset), nothing in this permit shall be construed to relieve the Permittee of civil or criminal liability under the AWPCA or FWPCA for noncompliance with any term or condition of this permit.

B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities or penalties to which the Permittee is or may be subject under Section 311 of the FWPCA, 33 U.S.C. Section 1321.

C. PROPERTY AND OTHER RIGHTS

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, or any infringement of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the state or of the United States.

D. AVAILABILITY OF REPORTS

Except for data determined to be confidential under Code of Alabama 1975, Section 22-22-9(c), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential.

E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

1. If this permit was issued for a new discharger or new source, this permit shall expire eighteen months after the issuance date if construction of the facility has not begun during the eighteen-month period.
2. If this permit was issued or modified to allow the discharge of increased quantities of pollutants to accommodate the modification of an existing facility and if construction of this modification has not begun during the eighteen month period after issuance of this permit or permit modification, this permit shall be modified to reduce the quantities of pollutants allowed to be discharged to those levels that would have been allowed if the modification of the facility had not been planned.
3. Construction has begun when the owner or operator has:
 - a. Begun, or caused to begin as part of a continuous on-site construction program:
 - (1) Any placement, assembly, or installation of facilities or equipment; or
 - (2) Significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which are necessary for the placement, assembly, or installation of new source facilities or equipment; or
 - b. Entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.
4. Final plans and specifications for a waste treatment facility at a new source or new discharger, or a modification to an existing waste treatment facility must be submitted to and examined by the Department prior to initiating construction of such treatment facility by the Permittee.
5. Upon completion of construction of waste treatment facilities and prior to operation of such facilities, the Permittee shall submit to the Department a certification from a registered professional engineer, licensed to practice in the State of Alabama, that the treatment facilities have been built according to plans and specifications submitted to and examined by the Department.

F. COMPLIANCE WITH WATER QUALITY STANDARDS

1. On the basis of the Permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this permit should assure compliance with the applicable water quality standards.
2. Compliance with permit terms and conditions notwithstanding, if the Permittee's discharge(s) from point sources identified in Provision I. A. of this permit cause or contribute to a condition in contravention of state water quality standards, the Department may require abatement action to be taken by the Permittee in emergency situations or modify the permit pursuant to the Department's Rules, or both.
3. If the Department determines, on the basis of a notice provided pursuant to this permit or any investigation, inspection or sampling, that a modification of this permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification, and, in cases of emergency, the Director may prohibit the discharge until the permit has been modified.

G. GROUNDWATER

Unless specifically authorized by a permit issued by the Department, the discharge of pollutants to groundwater is prohibited. Should a threat of groundwater contamination occur, the Director may require groundwater monitoring to properly assess the degree of the problem, and the Director may require that the Permittee undertake measures to abate any such discharge and/or contamination.

H. DEFINITIONS

1. Average monthly discharge limitation – means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month (zero discharge days shall not be included in the number of "daily

discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).

2. Average weekly discharge limitation - means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).
3. Arithmetic Mean – means the summation of the individual values of any set of values divided by the number of individual values.
4. AWPCA – means the Alabama Water Pollution Control Act.
5. BOD – means the five-day measure of the pollutant parameter biochemical oxygen demand.
6. Bypass – means the intentional diversion of waste streams from any portion of a treatment facility.
7. CBOD – means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
8. Daily discharge – means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
9. Daily maximum – means the highest value of any individual sample result obtained during a day.
10. Daily minimum – means the lowest value of any individual sample result obtained during a day.
11. Day – means any consecutive 24-hour period.
12. Department – means the Alabama Department of Environmental Management.
13. Director – means the Director of the Department.
14. Discharge – means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other waste into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(9).
15. Discharge Monitoring Report (DMR) – means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
16. DO – means dissolved oxygen.
17. 8HC – means 8-hour composite sample, including any of the following:
 - a. The mixing of at least 5 equal volume samples collected at constant time intervals of not more than 2 hours over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
 - b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
18. EPA – means the United States Environmental Protection Agency.
19. FC – means the pollutant parameter fecal coliform.
20. Flow – means the total volume of discharge in a 24-hour period.
21. FWPCA – means the Federal Water Pollution Control Act.
22. Geometric Mean – means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).
23. Grab Sample – means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
24. Indirect Discharger – means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
25. Industrial User – means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category "Division D – Manufacturing" and such other classes of significant waste producers as, by regulation, the Director deems appropriate.

26. MGD – means million gallons per day.
27. Monthly Average – means the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.
28. New Discharger – means a person, owning or operating any building, structure, facility or installation:
 - a. From which there is or may be a discharge of pollutants;
 - b. From which the discharge of pollutants did not commence prior to August 13, 1979, and which is not a new source; and
 - c. Which has never received a final effective NPDES permit for dischargers at that site.
29. NH3-N – means the pollutant parameter ammonia, measured as nitrogen.
30. Notifiable sanitary sewer overflow – means an overflow, spill, release or diversion of wastewater from a sanitary sewer system that:
 - a. Reaches a surface water of the State; or
 - b. May imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.
31. Permit application – means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
32. Point source – means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
33. Pollutant – includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
34. Privately Owned Treatment Works – means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
35. Publicly Owned Treatment Works – means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
36. Receiving Stream – means the "waters" receiving a "discharge" from a "point source".
37. Severe property damage – means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
38. Significant Source – means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
39. TKN – means the pollutant parameter Total Kjeldahl Nitrogen.
40. TON – means the pollutant parameter Total Organic Nitrogen.
41. TRC – means Total Residual Chlorine.
42. TSS – means the pollutant parameter Total Suspended Solids.
43. 24HC – means 24-hour composite sample, including any of the following:
 - a. The mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
 - b. A sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or

- c. A sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.
44. Upset – means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
45. Waters – means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground, or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership, or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.
46. Week – means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
47. Weekly (7-day and calendar week) Average – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

I. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PART IV SPECIFIC REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. SLUDGE MANAGEMENT PRACTICES

1. Applicability
 - a. Provisions of Provision IV.A. apply to a sewage sludge generated or treated in treatment works that is applied to agricultural and non-agricultural land, or that is otherwise distributed, marketed, incinerated, or disposed in landfills or surface disposal sites.
 - b. Provisions of Provision IV.A. do not apply to:
 - (1) Sewage sludge generated or treated in a privately owned treatment works operated in conjunction with industrial manufacturing and processing facilities and which receive no domestic wastewater.
 - (2) Sewage sludge that is stored in surface impoundments located at the treatment works prior to ultimate disposal.
2. Submitting Information
 - a. If applicable, the Permittee must submit annually with its Municipal Water Pollution Prevention (MWPP) report the following:
 - (1) Type of sludge stabilization/digestion method;
 - (2) Daily or annual sludge production (dry weight basis);
 - (3) Ultimate sludge disposal practice(s).
 - b. The Permittee shall provide sludge inventory data to the Director as requested. These data may include, but are not limited to, sludge quantity and quality reported in Provision IV.A.2.a as well as other specific analyses required to comply with State and Federal laws regarding solid and hazardous waste disposal.
 - c. The Permittee shall give prior notice to the Director of at least 30 days of any change planned in the Permittee's sludge disposal practices.
3. Reopener or Modification
 - a. Upon review of information provided by the Permittee as required by Provision IV.A.2. or, based on the results of an on-site inspection, the permit shall be subject to modification to incorporate appropriate requirements.
 - b. If an applicable "acceptable management practice" or if a numerical limitation for a pollutant in sewage sludge promulgated under Section 405 of FWPCA is more stringent than the sludge pollutant limit or acceptable management practice in this permit. This permit shall be modified or revoked or reissued to conform to requirements promulgated under Section 405. The Permittee shall comply with the limitations no later than the compliance deadline specified in applicable regulations as required by Section 405 of FWPCA.

B. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS FOR CHRONIC TOXICITY

1. Chronic Toxicity Test
 - a. The permittee shall perform short-term chronic toxicity tests on the wastewater at Outfall 001.
 - b. The samples shall be diluted using appropriate control water to the Instream Waste Concentration (IWC) which is **75 percent effluent for Outfall 0012 and 84 percent effluent for Outfall 0013**. The IWC is the actual concentration of effluent, after mixing, in the receiving stream during a 7-day, 10-year low flow period.
 - c. Any test result that shows a statistically significant reduction in survival, growth, or reproduction between the control and test samples at the 95% confidence level indicates chronic toxicity and shall constitute noncompliance with this permit.
2. General Test Requirements
 - a. A minimum of three (3) 24-hour composite samples shall be obtained for use in the above biomonitoring tests. Samples shall be collected every other day so that the laboratory receives water samples on the first, third, and fifth day of the seven-day test period. The holding time for each composite sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA 821-R-02-013 (most current edition) or another control water selected by the Permittee and approved by the Department.
 - b. Test results shall be deemed unacceptable and the Permittee shall rerun the tests as soon as practical within the monitoring period for the following:
 - (1) For testing with *P. promelas*, effluent toxicity tests with control survival of less than 80% or if dry weight per surviving control organism is less than 0.25 mg;
 - (2) For testing with *C. dubia*, if the number of young per surviving control organism is less than 15 or if less than 60% of surviving control females produce three broods; or
 - (3) If the other requirements of the EPA Test Procedure are not met.

- c. In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are to be reported to the Department along with an explanation of the tests performed and the test results.
- d. Toxicity tests shall be conducted for the duration of this permit in the month of **November**. Should results from the Annual Toxicity test indicate that Outfall 001 exhibits chronic toxicity, then the Permittee must conduct the follow-up testing described in Part IV.B.4.a. In addition, the Permittee may then also be required to conduct toxicity testing in the months of FEBRUARY, MAY, AUGUST, and NOVEMBER.

3. Reporting Requirements

- a. The Permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).
- b. Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 2 of this part, an effluent toxicity report containing the information in Sections 2 and 6 shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month that tests were performed.

4. Additional Testing Requirements

- a. If chronic toxicity is indicated (i.e., noncompliance with permit limit), then the Permittee must perform two additional valid chronic toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall run consecutively beginning on the first calendar week following the date that the Permittee became aware of the permit noncompliance. The results of these follow-up tests shall be submitted to the Department no later than 28 days following the month the tests were performed.
- b. After evaluation of the results of the follow-up tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols and guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-91-003, EPA/600/R-92/081, EPA/833/B-99/022, and/or EPA/600/6-91/005F)

5. Test Methods

The tests shall be performed in accordance with the latest edition of the "EPA Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms." The Larval Survival and Growth Test, Method 1000.0, shall be used for the fathead minnow (*Pimephales promelas*) test and the Survival and Reproduction Test, Method 1002.0, shall be used for the cladoceran (*Ceriodaphnia dubia*) test.

6. Effluent Toxicity Testing Reports

The following information shall be submitted with each DMR unless otherwise directed by the Department. The Department may at any times suspend or reinstate this requirement or may decrease or increase the frequency of submittals.

a. Introduction

- (1) Facility name, location and county
- (2) Permit number
- (3) Toxicity testing requirements of permit
- (4) Name of receiving water body
- (5) Contract laboratory information (if tests are performed under contract)
 - (a) Name of firm
 - (b) Telephone number
 - (c) Address
- (6) Objective of test

b. Plant Operations

- (1) Discharge Operating schedule (if other than continuous)
- (2) Volume of discharge during sample collection to include Mean daily discharge on sample collection dates (MGD, CFS, GPM)
- (3) Design flow of treatment facility at time of sampling

c. Source of Effluent and Dilution Water

- (1) Effluent samples
 - (a) Sampling point
 - (b) Sample collection dates and times (to include composite sample start and finish times)
 - (c) Sample collection method
 - (d) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)

- (e) Lapsed time from sample collection to delivery
 - (f) Lapsed time from sample collection to test initiation
 - (g) Sample temperature when received at the laboratory
- (2) Dilution Water
 - (a) Source
 - (b) Collection/preparation date(s) and time(s)
 - (c) Pretreatment (if applicable)
 - (d) Physical and chemical characteristics (water temperature, pH, alkalinity, hardness, specific conductance, etc.)
- d. Test Conditions
 - (1) Toxicity test method utilized
 - (2) End point(s) of test
 - (3) Deviations from referenced method, if any, and reason(s)
 - (4) Date and time test started
 - (5) Date and time test terminated
 - (6) Type and volume of test chambers
 - (7) Volume of solution per chamber
 - (8) Number of organisms per test chamber
 - (9) Number of replicate test chambers per treatment
 - (10) Test temperature, pH, and dissolved oxygen as recommended by the method (to include ranges)
 - (11) Specify if aeration was needed
 - (12) Feeding frequency, amount, and type of food
 - (13) Specify if (and how) pH control measures were implemented
 - (14) Light intensity (mean)
- e. Test Organisms
 - (1) Scientific name
 - (2) Life stage and age
 - (3) Source
 - (4) Disease(s) treatment (if applicable)
- f. Quality Assurance
 - (1) Reference toxicant utilized and source
 - (2) Date and time of most recent chronic reference toxicant test(s), raw data, and current control chart(s). (The most recent chronic reference toxicant test shall be conducted within 30 days of the routine.)
 - (3) Dilution water utilized in reference toxicant test
 - (4) Results of reference toxicant test(s) (NOEC, IC25, etc.); report concentration-response relationship and evaluate test sensitivity
 - (5) Physical and chemical methods utilized
- g. Results
 - (1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate
 - (2) Provide table of endpoints: NOECs, IC25s, PASS/FAIL, etc. (as required in the applicable NPDES permit)
 - (3) Indicate statistical methods used to calculate endpoints
 - (4) Provide all physical and chemical data required by method
 - (5) Results of test(s) (NOEC, IC25, PASS/FAIL, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD) calculated for sublethal endpoints determined by hypothesis testing.
- h. Conclusions and Recommendations
 - (1) Relationship between test endpoints and permit limits
 - (2) Actions to be taken

1/ Adapted from "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms", Fourth Edition, October 2002 (EPA 821-R-02-013), Section 10, Report Preparation.

C. PLANT CLASSIFICATION

The Permittee shall report to the Director within 30 days of the effective date of this permit, the name, address and operator number of the certified wastewater operator in responsible charge of the facility. Unless specified elsewhere in this permit, this facility shall be classified in accordance with ADEM Admin. Code R. 335-10-1-.03.

D. POLLUTANT SCANS

The Permittee shall sample and analyze for the pollutants listed in 40 CFR 122 Appendix J Table 2. The Permittee shall provide data from a minimum of three samples collected within the four and one half years prior to submitting a permit application. Samples must be representative of the seasonal variation in the discharge from each outfall.

E. SPECIAL CONDITIONS FOR PERMIT LIMITATIONS IN PART I**1. Notification of Construction Completion**

- a. The Permittee must notify the Department when construction of the expanded 3.5 mgd facility is complete in accordance with Part III.E.5 of this permit.

2. Effective Permit Requirements

- a. Effluent limits for Outfall 0012 and 0013 shall apply as described on the limit pages in Part I.A.

F. STORM WATER REQUIREMENTS**1. Prohibitions**

- a. The Permittee shall not allow the discharge of non-storm water into permitted storm water outfall(s) unless said discharge is already subject to an NPDES permit.
- b. Pollutants removed in the course of treatment or control shall be disposed in a manner that complies with all applicable Department rules and regulations.

2. Operational and Management Practices

The permittee shall prepare, submit for approval, and implement a Storm Water Pollution Prevention (SWPP) Plan within one year of the effective date of this permit.

a. In the SWPP Plan, the Permittee shall:

- (1) Assess the treatment plant site by developing and presenting site drainage maps, materials inventory, and best management operational practices. The plan shall also include a description of all spill or leak sources;
- (2) Describe mechanisms and procedures to prevent the contact of sewage sludge, screenings, raw or partially treated wastewater, or any other waste product or pollutant with storm water discharged from the facility;
- (3) Provide for daily inspection on workdays of any structures that function to prevent storm water pollution or that remove pollutants from storm water;
- (4) Provide for daily inspection of the facility in general to ensure that the SWPP Plan is continually implemented and effective;
- (5) Include a Best Management Practices (BMP) Plan that, as a minimum, addresses housekeeping, preventative maintenance, spill prevention and response, and non-storm water discharges;
- (6) Describe mechanisms and procedures to provide sediment control sufficient to prevent or control storm water pollution storm water by particles resulting from soil or sediment migration from the site due to significant clearing, grading, or excavation activities;
- (7) Designate by position or name the person or persons responsible for the day to day implementation of the SWPP Plan; and
- (8) Bear the signature of an individual meeting signatory requirements as defined in ADEM Administrative Code, Rule 335-6-09.

- b. The Director or his designee may notify the permittee at any time that the SWPP Plan is deficient and will require correction of the deficiency. The permittee shall correct any SWPP Plan deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.

c. Administrative Procedures

- (1) A copy of the SWPP Plan shall be maintained at the facility and shall be available for inspection by the Department.
- (2) A log of daily inspections required by Provision IV.F.2.a.(3.) of the permit shall be maintained at the facility and shall be made available for inspection by the Department upon request. The log shall contain records of all inspections performed and each daily entry shall be signed by the person performing the inspection.
- (3) The Permittee shall provide training for any personnel required to implement the SWPP Plan and shall retain documentation of such training at the facility. Training records for all personnel shall be available for inspection by the Department. Training shall be performed prior to the date implementation is required.

3. Monitoring Requirements

- a. Storm water discharged through each storm water outfall shall be sampled once per calendar year, using first flush grab samples (FFGS) collected during the first 30 minutes of discharge.

- b. The total volume of storm water discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for the storm event(s) sampled. The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained in accordance with Provision I.B.5. of this permit. The volume may be measured using flow measurement devices or may be estimated using any method approved in writing by the Department.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION – INDUSTRIAL AND MUNICIPAL SECTIONS
NONCOMPLIANCE NOTIFICATION FORM

PERMITTEE NAME: _____ PERMIT NO: _____
FACILITY LOCATION: _____
DMR REPORTING PERIOD: _____

1. DESCRIPTION OF DISCHARGE: (Include outfall number (s))
2. DESCRIPTION OF NON-COMPLIANCE: (Attach additional pages if necessary):

LIST EFFLUENT VIOLATIONS (If applicable)			
Outfall Number (s)	NONCOMPLIANCE PARAMETER(S)	Result Reported (Include units)	Permit Limit (Include units)

LIST MONITORING / REPORTING VIOLATIONS (If applicable)		
Outfall Number (s)	NONCOMPLIANCE PARAMETER(S)	Monitoring / Reporting Violation (Provide description)

3. CAUSE OF NON-COMPLIANCE (Attach additional pages if necessary):
4. PERIOD OF NONCOMPLIANCE: (Include exact date(s) and time(s) or, if not corrected, the anticipated time the noncompliance is expected to continue):
5. DESCRIPTION OF STEPS TAKEN AND/OR BEING TAKEN TO REDUCE OR ELIMINATE THE NONCOMPLYING DISCHARGE AND TO PREVENT ITS RECURRENCE (attach additional pages if necessary):

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

NAME AND TITLE OF RESPONSIBLE OFFICIAL (type or print) _____

SIGNATURE OF RESPONSIBLE OFFICIAL / DATE SIGNED _____

NPDES PERMIT RATIONALE

NPDES Permit No: **AL0049042**

Date: September 24, 2009

Permit Applicant: The Utilities Board of the City of Foley
Post Office Box 2050
Foley, Alabama 36536

Location: Foley WWTP
1000 Greentree Lane
Foley, Alabama 36536

Draft Permit is: Initial Issuance:
Reissuance due to expiration: X
Modification of existing permit:
Revocation and Reissuance:

Basis for Limitations: Water Quality Model: TKN, DO, NH₃-N, CBOD₅
Reissuance with no modification: See Below
Instream calculation at 7Q10: 75 % at 2.0 MGD; 84 % at 3.5 MGD
Toxicity based:
Secondary Treatment Levels: TSS, TSS percent Removal
Other (described below): TP, NO₂+NO₃-N, pH, Total Recoverable Mercury,
Fecal Coliform

Design Flow in Million Gallons per Day: 2.0 MGD/3.5 MGD

Description of Discharge: Outfall Numbers 0012 and 0013; Effluent discharge to
Wolf Creek, which is classified as Fish and Wildlife;

Outfall Numbers 001S and 002S; Storm Water
discharges to Wolf Creek, which is classified as Fish and
Wildlife

Discussion: This is a permit reissuance for expiration. Outfall 0012 represents the 2.0 MGD design capacity and Outfall 0013 represents the 3.5 MGD design capacity. Both tiers were included in the previous permit.

Outfall 0012: The following permit limits remain unchanged from the previous permit: CBOD₅ = 6.0 mg/L (summer monthly average), CBOD₅ = 13.0 mg/L (winter monthly average); NH₃-N = 3.8 mg/L (summer monthly average), NH₃-N = 6.0 mg/L (winter monthly average); DO = 7.0 mg/L (Annual Daily minimum); Fecal Coliform = 200 col/100 (annual daily maximum); TSS = 30.0 mg/L (annual monthly average). The pH limits are 6.0 s.u. (daily minimum) and 8.5 s.u. (daily maximum). The pH daily maximum decreased from 9.0 s.u. in the prior permit to 8.5 s.u. to protect water quality considering the available dilution.

Outfall 0013: The following permit limits are based on the Wasteload Allocation done in 2006, by the Water Quality Branch, and are imposed in this permit: CBOD₅ = 7.0 mg/L (summer monthly average), CBOD₅ = 10.0 mg/L (winter monthly average); NH₃-N = 3.0 mg/L (summer monthly average), NH₃-N =

4.0 mg/L (winter monthly average); TKN = 4.0 mg/L (summer monthly average), TKN = 6.0 mg/L (winter monthly average); and DO = 7.0 mg/L (Annual Daily minimum).

The following limits will also be imposed: Fecal Coliform = 200 col/100 (annual daily maximum); TSS = 30.0 mg/L (annual monthly average). The pH limits are 6.0 s.u. (daily minimum) and 8.5 s.u. (daily maximum).

This permit imposes monthly monitoring for the following nutrient-related parameters: Total Phosphorus (TP) and Nitrate plus Nitrite ($\text{NO}_2 + \text{NO}_3\text{-N}$). Total Kjeldahl Nitrogen (TKN) will be monitored monthly for Outfall 0012, and have a limit for Outfall 0013, as mentioned above. Monitoring for these nutrient-related parameters is imposed so that sufficient information will be available regarding the nutrient contribution from this point source, should it be necessary at some later time to impose nutrient limits on this discharge.

The TSS and TSS % removal limits are based on the requirements of 40 CFR part 133.102 regarding secondary treatment. Because this permit imposes CBOD_5 limits that are significantly more stringent than secondary limits, it is appropriate to eliminate the CBOD_5 percent removal.

Chronic toxicity testing is imposed with two species (Ceriodaphnia and Pimephales). Toxicity testing is required because this is a facility with a design flow greater than 1 MGD discharging to a water of the state with a Fish and Wildlife water-use classification. Toxicity testing is imposed for both survival and life-cycle impairment (i.e., growth and reproduction). Chronic toxicity testing is required on an annual basis (November) for Outfall 0012 at the calculated IWC of 75 percent and Outfall 0013 at the calculated IWC of 84 percent.

Since this facility is classified as a Major Municipal Wastewater plant, the Department completed a reasonable potential analysis (RPA) of the discharge based on laboratory data provided in the Permittee's application. The RPA indicates whether pollutants in treated effluent have the potential to contribute to excursions of Alabama's in-stream water quality standards. Based on the analytical data submitted by the Permittee, it appears that reasonable potential may exist to cause an in-stream water quality criteria exceedance for mercury. However, the submitted analytical data was not conclusive because the Permittee did not employ a sufficient method reporting limit to allow the Department to definitively complete the RPA. As a result, the Department is imposing quarterly monitoring for total recoverable mercury, requiring that the Permittee conduct low-level analytical testing.

The Department will review the analytical data for mercury during the term of the permit to evaluate the necessity for imposing limits at a later date.

The frequency of monitoring for most parameters, including nutrients, is three days per week. TSS % removal is to be reported monthly. Mercury is to be monitored quarterly. Flow is to be monitored continuously, seven days per week.

Storm water monitoring for storm water Outfalls 001S and 002S is required on an annual basis.

Wolf Creek is a Tier I stream and is not listed on the most recent 303(d) list. The alternatives analysis requirements of the Antidegradation Rule, ADEM Administrative Code R.335-6-10-.04, do not apply.

Prepared by: Marla Smith

TOXICITY AND DISINFECTION RATIONALE

Facility Name:	Foley WWTP	
NPDES Permit Number:	AL0049042	
Receiving Stream:	Wolf Creek	
Facility Design Flow (Q _w):	2.000 MGD	
Receiving Stream 7Q ₁₀ :	1.080 cfs	
Receiving Stream 1Q ₁₀ :	0.810 cfs	(Estimated at 0.75 * 7Q ₁₀)
Winter Headwater Flow (WHF):	2.32 cfs	
Summer Temperature for CCC:	26 deg. Celsius	
Winter Temperature for CCC:	16 deg. Celsius	
Headwater Background NH ₃ -N Level:	0.03 mg/l	
Receiving Stream pH:	6.3 s.u.	
Headwater Background FC Level (summer):	N/A.	(Only applicable for facilities with diffusers.)
(winter)	N/A.	

The Stream Dilution Ration (SDR) is calculated using the 7Q₁₀ for all stream classifications.

$$\text{Stream Dilution Ration (SDR)} = \frac{Q_w}{7Q_{10} + Q_w} = 74.13\%$$

AMMONIA TOXICITY LIMITATIONS

Toxicity-based ammonia limits are calculated in accordance with the *Ammonia Toxicity Protocol* and the *General Guidance for Writing Water Quality Based Toxicity Permits*.

If the Limiting Dilution is less than 1%, the waterbody is considered stream-dominated and the CMC applies.

If the Limiting Dilution is greater than 1%, the waterbody is considered effluent-dominated and the CCC applies.

$$\begin{aligned} \text{Limiting Dilution} &= \frac{Q_w}{7Q_{10} + Q_w} \\ &= 74.13\% \end{aligned} \quad \text{Effluent-Dominated, CCC Applies}$$

$$\begin{aligned} \text{Criterion Maximum Concentration (CMC):} & \quad \text{CMC} = 0.411 / (1 + 10^{(7.204 - \text{pH})}) + 58.4 / (1 + 10^{(\text{pH} - 7.204)}) \\ \text{Criterion Continuous Concentration (CCC):} & \quad \text{CCC} = [0.0577 / (1 + 10^{(7.688 - \text{pH})}) + 2.487 / (1 + 10^{(\text{pH} - 7.688)})] * \text{Min}[2.85, 1.45 * 10^{(0.028 * (25 - T))}] \end{aligned}$$

	<u>CMC</u>	<u>CCC</u>
Allowable Summer Instream NH ₃ -N:	52.48 mg/l	3.26 mg/l
Allowable Winter Instream NH ₃ -N:	52.48 mg/l	6.22 mg/l

$$\begin{aligned} \text{Summer NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (7Q_{10})]}{Q_w} \\ &= 4.4 \text{ mg/l NH}_3\text{-N at } 7Q_{10} \end{aligned}$$

$$\begin{aligned} \text{Winter NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (\text{WHF} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (\text{WHF})]}{Q_w} \\ &= 10.9 \text{ mg/l NH}_3\text{-N at Winter Flow} \end{aligned}$$

The ammonia limits established in the permit will be the lesser of the DO-based ammonia limit (from the wasteload allocation model) or the toxicity limits calculated above.

	<u>DO-based NH₃-N limit</u>	<u>Toxicity-based NH₃-N limit</u>
Summer	4.80 mg/l NH ₃ -N	4.40 mg/l NH ₃ -N
Winter	6.00 mg/l NH ₃ -N	10.90 mg/l NH ₃ -N

Summer: The toxicity-based limit of 4.40 mg/l NH₃-N applies.

(3.8 mg/L in previous permit)

Winter: The DO based limit of 6.00 mg/l NH₃-N applies.

TOXICITY TESTING REQUIREMENTS (REFERENCE: MUNICIPAL BRANCH TOXICITY PERMITTING STRATEGY)

The following factors trigger toxicity testing requirements:

1. Facility design flow is equal to or greater than 1.0 MGD (major facility).
2. There are significant industrial contributors (SID permits).

Acute toxicity testing is specified for A&I receiving streams, or for stream dilution ratios of 1% or less.

Chronic toxicity testing is specified for all other situations requiring toxicity testing.

Chronic toxicity testing is required

$$\text{Instream Waste Concentration (IWC)} = \frac{Q_w}{7Q_{10} + Q_w} = 74.13\% \quad \text{Note: This number will be rounded up for toxicity testing purposes.}$$

DISINFECTION REQUIREMENTS

Bacteria limits are required, and will be the water quality limit for the receiving stream, except where diffusers are used the limit may be adjusted for the dilution provided by the diffuser.

See the attached Disinfection Guidance for applicable stream standards.

(Non-coastal limits apply)

Applicable Stream Classification: **Outstanding Alabama Water, Fish & Wildlife**

Disinfection Type: **Ultraviolet**

Limit calculation method: **Limits based on meeting stream standards at the point of discharge.**

	Stream Standard (colonies/100ml)	Effluent Limit (colonies/100ml)
<u>Fecal Coliform (applies to Non-coastal and Shellfish Harvesting Coastal)</u>		
Monthly limit as geometric mean (October through May):	200	200
Monthly limit as geometric mean (June through September):	200	200
Daily Max (October through May):	2000	2000
Daily Max (June through September):	2000	2000
<u>Enterococci (applies to Coastal)</u>		
Monthly limit as geometric mean (October through May):	Not applicable	Not applicable
Monthly limit as geometric mean (June through September):	Not applicable	Not applicable
Daily Max (October through May):	Not applicable	Not applicable
Daily Max (June through September):	Not applicable	Not applicable

Note: ADEM Disinfection Guidance dictates that no FC limit will be established that is less restrictive than 4,000 colonies/100 ml.

MAXIMUM ALLOWABLE CHLORINATION LIMITS

Toxicity-based chlorine limits are calculated in accordance with the General Guidance for Writing Water Quality Based Toxicity Permits.

Chlorine has been shown to be acutely toxic at 0.019 mg/l and chronically toxic at 0.011 mg/l.

Maximum allowable TRC in effluent:	Not applicable	(0.011)/(SDR)
Maximum allowable TRC in effluent:	Not applicable	(0.019)/(SDR)

NOTE: A maximum chlorine limit will be imposed such that the instream concentration will not exceed acutely toxic concentrations in A & I streams and chronically toxic concentrations in all other streams, but may not exceed 1.0 mg/l.

Prepared By: Marla Shelley Smith

0 Date: 9/24/2009

TOXICITY AND DISINFECTION RATIONALE

Facility Name:	Foley WWTP	
NPDES Permit Number:	AL0049042	
Receiving Stream:	Wolf Creek	
Facility Design Flow (Q _w):	3.500 MGD	
Receiving Stream 7Q ₁₀ :	1.080 cfs	
Receiving Stream 1Q ₁₀ :	0.810 cfs	(Estimated at 0.75 * 7Q ₁₀)
Winter Headwater Flow (WHF):	2.32 cfs	
Summer Temperature for CCC:	26 deg. Celsius	
Winter Temperature for CCC:	16 deg. Celsius	
Headwater Background NH ₃ -N Level:	0.03 mg/l	
Receiving Stream pH:	6.3 s.u.	
Headwater Background FC Level (summer):	N/A.	(Only applicable for facilities with diffusers.)
(winter)	N/A.	

The Stream Dilution Ratio (SDR) is calculated using the 7Q₁₀ for all stream classifications.

$$\text{Stream Dilution Ratio (SDR)} = \frac{Q_w}{7Q_{10} + Q_w} = 83.37\%$$

AMMONIA TOXICITY LIMITATIONS

Toxicity-based ammonia limits are calculated in accordance with the *Ammonia Toxicity Protocol* and the *General Guidance for Writing Water Quality Based Toxicity Permits*.

If the Limiting Dilution is less than 1%, the waterbody is considered stream-dominated and the CMC applies.

If the Limiting Dilution is greater than 1%, the waterbody is considered effluent-dominated and the CCC applies.

$$\begin{aligned} \text{Limiting Dilution} &= \frac{Q_w}{7Q_{10} + Q_w} \\ &= 83.37\% \end{aligned} \quad \text{Effluent-Dominated, CCC Applies}$$

Criterion Maximum Concentration (CMC):	CMC = $0.411 / (1 + 10^{(7.204 - \text{pH})}) + 58.4 / (1 + 10^{(\text{pH} - 7.204)})$
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	<u>CMC</u>	<u>CCC</u>
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$$\begin{aligned} \text{Summer NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (7Q_{10})]}{Q_w} \\ &= 4.0 \text{ mg/l NH}_3\text{-N at } 7Q_{10} \end{aligned}$$

$$\begin{aligned} \text{Winter NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (\text{WHF} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (\text{WHF})]}{Q_w} \\ &= 8.9 \text{ mg/l NH}_3\text{-N at Winter Flow} \end{aligned}$$

The ammonia limits established in the permit will be the lesser of the DO-based ammonia limit (from the wasteload allocation model) or the toxicity limits calculated above.

	<u>DO-based NH₃-N limit</u>	<u>Toxicity-based NH₃-N limit</u>
Summer	3.00 mg/l NH ₃ -N	4.00 mg/l NH ₃ -N
Winter	2.00 mg/l NH ₃ -N	8.90 mg/l NH ₃ -N

Summer: The DO based limit of 3.00 mg/l NH₃-N applies.

Winter: The DO based limit of 2.00 mg/l NH₃-N applies.

TOXICITY TESTING REQUIREMENTS (REFERENCE: MUNICIPAL BRANCH TOXICITY PERMITTING STRATEGY)

The following factors trigger toxicity testing requirements:

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Applicable Stream Classification: **Outstanding Alabama Water, Fish & Wildlife**

Disinfection Type: **Ultraviolet**

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	Stream Standard (colonies/100ml)	Effluent Limit (colonies/100ml)
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<u>Enterococci (applies to Coastal)</u>		
Monthly limit as geometric mean (October through May):	Not applicable	Not applicable
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Note: ADEM Disinfection Guidance dictates that no FC limit will be established that is less restrictive than 4,000 colonies/100 ml.

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Chlorine has been shown to be acutely toxic at 0.019 mg/l and chronically toxic at 0.011 mg/l.

Maximum allowable TRC in effluent:	Not applicable	(0.011)/(SDR)
Maximum allowable TRC in effluent:	Not applicable	(0.019)/(SDR)

NOTE: A maximum chlorine limit will be imposed such that the instream concentration will not exceed acutely toxic concentrations in A & I streams and chronically toxic concentrations in all other streams, but may not exceed 1.0 mg/l.

Prepared By: Marla Shelley Smith

Date: 9/24/2009

Q _d *C _d + Q _{d2} *C _{d2} + Q _s *C _s = Q _r *C _r												
ID	Pollutant	Carcinogen Yes*	Type	Background from upstream source (C _{d1})		Background from upstream source (C _{d2})		Background Instream (C _s)		Discharge as reported by Applicant (C _{dmax})	Discharge as reported by Applicant (C _{davg})	Partition Coefficient (Stream / Lake)
				Daily Max ug/l	Monthly Avg ug/l	Daily Max ug/l	Monthly Avg ug/l	Daily Max ug/l	Monthly Avg ug/l			
1	Antimony		Metals	0	0	0	0	0	0	0		
2	Arsenic***	YES	Metals	0	0	0	0	0	0	0		0.574
3	Beryllium		Metals	0	0	0	0	0	0	0		0.238
4	Cadmium**		Metals	0	0	0	0	0	0	0		0.210
5	Chromium / Chromium III**		Metals	0	0	0	0	0	0	0		
6	Chromium / Chromium VI**		Metals	0	0	0	0	0	0	0		
7	Copper**		Metals	0	0	0	0	0	0	0		0.388
8	Lead**		Metals	0	0	0	0	0	0	0		0.487
9	Mercury**		Metals	0	0	0	0	0	0	0		0.302
10	Nickel**		Metals	0	0	0	0	0	0	0		0.605
11	Selenium		Metals	0	0	0	0	0	0	0		-
12	Silver		Metals	0	0	0	0	0	0	0		-
13	Thallium		Metals	0	0	0	0	0	0	0		-
14	Zinc**		Metals	0	0	0	0	0	10	10		0.330
15	Cyanide		Metals	0	0	0	0	0	0	0		-
16	Total Phenolic Compounds		Metals	0	0	0	0	0	0	0		-
17	Hardness (As CaCO3)		Metals	0	0	0	0	0	\$3000	\$7000		-
18	Acetoin		VOC	0	0	0	0	0	0	0		-
19	Atrypofluoride*	YES	VOC	0	0	0	0	0	0	0		-
20	Aldrin	YES	VOC	0	0	0	0	0	0	0		-
21	Benzene*	YES	VOC	0	0	0	0	0	0	0		-
22	Bromoform*	YES	VOC	0	0	0	0	0	0	0		-
23	Carbon Tetrachloride*	YES	VOC	0	0	0	0	0	0	0		-
24	Chlordane	YES	VOC	0	0	0	0	0	0	0		-
25	Dibromobenzene		VOC	0	0	0	0	0	0	0		-
26	Chlorodibromo-Methane*	YES	VOC	0	0	0	0	0	0	0		-
27	Chloroethane		VOC	0	0	0	0	0	0	0		-
28	2-Chloro-Ethyl Vinyl Ether		VOC	0	0	0	0	0	0	0		-
29	Chloroform*	YES	VOC	0	0	0	0	0	0	0		-
30	4,4'-DDD	YES	VOC	0	0	0	0	0	0	0		-
31	4,4'-DDE	YES	VOC	0	0	0	0	0	0	0		-
32	4,4'-DDT	YES	VOC	0	0	0	0	0	0	0		-
33	Dichlorobromo-Methane*	YES	VOC	0	0	0	0	0	0	0		-
34	1,1-Dichloroethane		VOC	0	0	0	0	0	0	0		-
35	1,2-Dichloroethane*	YES	VOC	0	0	0	0	0	0	0		-
36	Trans-1,2-Dichloro-Ethylene		VOC	0	0	0	0	0	0	0		-
37	1,1-Dichloroethylene*	YES	VOC	0	0	0	0	0	0	0		-
38	1,2-Dichloropropane		VOC	0	0	0	0	0	0	0		-
39	1,3-Dichloro-Propylene		VOC	0	0	0	0	0	0	0		-
40	Dieldrin	YES	VOC	0	0	0	0	0	0	0		-
41	Diethylbenzene		VOC	0	0	0	0	0	0	0		-
42	Methyl Bromide		VOC	0	0	0	0	0	0	0		-
43	Methyl Chloride		VOC	0	0	0	0	0	0	0		-
44	Methylene Chloride*	YES	VOC	0	0	0	0	0	0	0		-
45	1,1,1,2-Tetrachloro-Ethane*	YES	VOC	0	0	0	0	0	0	0		-
46	Tetrachloro-Ethylene*	YES	VOC	0	0	0	0	0	0	0		-
47	Toluene		VOC	0	0	0	0	0	0	0		-
48	Toxaphene	YES	VOC	0	0	0	0	0	0	0		-
49	Triphenylene (TBT)	YES	VOC	0	0	0	0	0	0	0		-
50	1,1,1-Trichloroethane*	YES	VOC	0	0	0	0	0	0	0		-
51	1,1,2-Trichloroethane*	YES	VOC	0	0	0	0	0	0	0		-
52	Trichloroethylene*	YES	VOC	0	0	0	0	0	0	0		-
53	Vinyl Chloride*	YES	VOC	0	0	0	0	0	0	0		-
54	P-Chloro-H-Cresol		Acids	0	0	0	0	0	0	0		-
55	2-Chlorophenol		Acids	0	0	0	0	0	0	0		-
56	2,4-Dichlorophenol		Acids	0	0	0	0	0	0	0		-
57	2,4-Dinitrophenol		Acids	0	0	0	0	0	0	0		-
58	4,6-Dinitro-O-Cresol		Acids	0	0	0	0	0	0	0		-
59	2,4-Dinitrophenol		Acids	0	0	0	0	0	0	0		-
60	4,6-Dinitro-2-methylphenol	YES	Acids	0	0	0	0	0	0	0		-
61	Dioxin (2,3,7,8-TCDD)	YES	Acids	0	0	0	0	0	0	0		-
62	2-Nitrophenol		Acids	0	0	0	0	0	0	0		-
63	4-Nitrophenol		Acids	0	0	0	0	0	0	0		-
64	Pentachlorophenol*	YES	Acids	0	0	0	0	0	0	0		-
65	Phenol		Acids	0	0	0	0	0	0	0		-
66	2,4,6-Trichlorophenol*	YES	Acids	0	0	0	0	0	0	0		-
67	Acenaphthene		Bases	0	0	0	0	0	0	0		-
68	Acenaphthylene		Bases	0	0	0	0	0	0	0		-
69	Anthracene		Bases	0	0	0	0	0	0	0		-
70	Benzo(a)Anthracene*	YES	Bases	0	0	0	0	0	0	0		-
71	Benzo(a)Pyrene*	YES	Bases	0	0	0	0	0	0	0		-
72	Benzo(b)Fluoranthene		Bases	0	0	0	0	0	0	0		-
73	Benzo(k)Fluoranthene		Bases	0	0	0	0	0	0	0		-
74	Benzo(g,h,i)Perylene		Bases	0	0	0	0	0	0	0		-
75	Benzo(a)Fluoranthene		Bases	0	0	0	0	0	0	0		-
76	Bis (2-Chloroethoxy) Methane		Bases	0	0	0	0	0	0	0		-
77	Bis (2-Chloroethyl) Ether*	YES	Bases	0	0	0	0	0	0	0		-
78	Bis (2-Chloroisopropyl) Ether		Bases	0	0	0	0	0	0	0		-
79	Bis (2-Ethylhexyl) Phthalate*	YES	Bases	0	0	0	0	0	0	0		-
80	4-Bromophenyl Phenyl Ether		Bases	0	0	0	0	0	0	0		-
81	Butyl Benzyl Phthalate		Bases	0	0	0	0	0	0	0		-
82	2-Chlorophthalate		Bases	0	0	0	0	0	0	0		-
83	4-Chlorophenyl Phenyl Ether		Bases	0	0	0	0	0	0	0		-
84	Chrysene*	YES	Bases	0	0	0	0	0	0	0		-
85	Di-N-Butyl Phthalate		Bases	0	0	0	0	0	0	0		-
86	Di-N-Octyl Phthalate		Bases	0	0	0	0	0	0	0		-
87	Dibenz(a,h)Anthracene*	YES	Bases	0	0	0	0	0	0	0		-
88	1,2-Dichlorobenzene		Bases	0	0	0	0	0	0	0		-
89	1,3-Dichlorobenzene		Bases	0	0	0	0	0	0	0		-
90	1,4-Dichlorobenzene		Bases	0	0	0	0	0	0	0		-
91	1,3-Dichlorobenzene*	YES	Bases	0	0	0	0	0	0	0		-
92	Diethyl Phthalate		Bases	0	0	0	0	0	0	0		-
93	Dimethyl Phthalate		Bases	0	0	0	0	0	0	0		-
94	2,4-Dinitrotoluene*	YES	Bases	0	0	0	0	0	0	0		-
95	2,6-Dinitrotoluene		Bases	0	0	0	0	0	0	0		-
96	1,2-Diphenylhydrazine		Bases	0	0	0	0	0	0	0		-
97	Endosulfan (alpha)	YES	Bases	0	0	0	0	0	0	0		-
98	Endosulfan (beta)	YES	Bases	0	0	0	0	0	0	0		-
99	Endosulfan sulfate	YES	Bases	0	0	0	0	0	0	0		-
100	Endrin	YES	Bases	0	0	0	0	0	0	0		-
101	Endrin Aldehyde	YES	Bases	0	0	0	0	0	0	0		-
102	Fluorene		Bases	0	0	0	0	0	0	0		-
103	Fluorene	YES	Bases	0	0	0	0	0	0	0		-
104	Heptachlor	YES	Bases	0	0	0	0	0	0	0		-
105	Heptachlor Epoxide	YES	Bases	0	0	0	0	0	0	0		-
106	Hexachlorobenzene*	YES	Bases	0	0	0	0	0	0	0		-
107	Hexachlorobutadiene*	YES	Bases	0	0	0	0	0	0	0		-
108	Hexachlorocyclohexane (alpha)	YES	Bases	0	0	0	0	0	0	0		-
109	Hexachlorocyclohexane (beta)	YES	Bases	0	0	0	0	0	0	0		-
110	Hexachlorocyclohexane (gamma)	YES	Bases	0	0	0	0	0	0	0		-
111	Hexachlorocyclopentadiene		Bases	0	0	0	0	0	0	0		-
112	Hexachloroethane		Bases	0	0	0	0	0	0	0		-
113	Indeno(1,2,3-CD)Pyrene*	YES	Bases	0	0	0	0	0	0	0		-
114	Isothiuron		Bases	0	0	0	0	0	0	0		-
115	Isothiuron		Bases	0	0	0	0	0	0	0		-
116	Isobutylene		Bases	0	0	0	0	0	0	0		-
117	N-Nitrosodi-N-Propylamine*	YES	Bases	0	0	0	0	0	0	0		-
118	N-Nitrosodi-N-Methylamine*	YES	Bases	0	0	0	0	0	0	0		-
119	N-Nitrosodi-N-Phenylamine*	YES	Bases	0	0	0	0	0	0	0		-
120	PCB-1016		Bases	0	0	0	0	0	0	0		-
121	PCB-1221	YES	Bases	0	0	0	0	0	0	0		-
122	PCB-1232	YES	Bases	0	0	0	0	0	0	0		-
123	PCB-1242	YES	Bases	0	0	0	0	0	0	0		-
124	PCB-1248	YES	Bases	0	0	0	0	0	0	0		-
125	PCB-1254	YES	Bases	0	0	0	0	0	0	0		-
126	PCB-1260	YES	Bases	0	0	0	0	0	0	0		-

Facility Name: Foley WWTP																									
NPDES No: AL0049042																									
Freshwater F&W classification:													Human Health Consumption Fish only (µg/l)												
Freshwater Aquatic (µg/l) C ₀ = 10:10													Chlorogen C ₀ = Annual Average Non-Chlorogen C ₀ = 70:10												
ID	Pollutant	RP?	Chlorogen yes	Background from upstream source (C ₀)	Max Daily Discharge as reported by Applicant (C ₀)	Water Quality Criteria (C ₀)	Draft Permit Limit (C ₀)	20% of Draft Permit Limit	RP?	Background from upstream source (C ₀)	Avg Daily Discharge as reported by Applicant (C ₀)	Water Quality Criteria (C ₀)	Draft Permit Limit (C ₀)	20% of Draft Permit Limit	RP?	Water Quality Criteria (C ₀)	Draft Permit Limit (C ₀)	20% of Draft Permit Limit	RP?	Water Quality Criteria (C ₀)	Draft Permit Limit (C ₀)	20% of Draft Permit Limit	RP?		
1	Antimony			0	0					0	0					3.73E+02	5.04E+02	1.01E+02	No						
2	Arsenic		YES	0	0	592.334	747.393	149.477	No	0	0	261.324	352.520	70.506	No	3.03E-01	6.11E-01	1.22E-01	No						
3	Beryllium			0	0	4.347	5.495	1.097	No	0	0	0.944	0.868	0.174	No										
4	Cadmium			0	0	1537.913	1849.474	369.895	No	0	0	200.551	269.571	53.974	No										
5	Chromium/ Chromium III			0	0	18.000	20.158	4.031	No	0	0	11.000	14.539	2.908	No										
6	Chromium/ Chromium VI			0	0	18.028	22.745	4.549	No	0	0	12.769	17.221	3.444	No	1.30E+03	1.75E+03	3.51E+02	No						
7	Copper			0	0	64.531	61.422	16.284	No	0	0	2.515	3.392	0.678	No										
8	Lead			0	0	2.400	3.028	0.606	No	0	0	0.012	0.016	0.003	No	4.24E-02	5.72E-02	1.14E-02	No						
9	Mercury			0	0	515.824	650.848	130.169	No	0	0	57.292	77.288	15.458	No	9.93E-02	1.34E+03	2.68E+02	No						
10	Nickel			0	0	20.000	25.235	5.047	No	0	0	5.000	6.745	1.349	No	2.43E+03	3.28E+03	6.56E+02	No						
11	Selenium			0	0	0.978	1.232	0.248	No	0	0					2.74E-01	3.69E-01	7.34E-02	No						
12	Silver			0	0	187.369	249.032	49.808	No	0	0	168.993	249.431	50.868	No	1.49E+04	2.01E+04	4.02E+03	No						
13	Thallium			0	0	22.000	27.759	5.552	No	0	0	5.209	7.015	1.403	No	9.93E+03	1.26E+04	2.52E+03	No						
14	Zinc			0	0					0	0														
15	Cyanide			0	0					0	0														
16	Total Phenolic Compounds			0	0					0	0														
17	Hardness (As CaCO3)			0	53000					0	57000														
18	Acrolein			0	0					0	0					5.43E+00	7.32E+00	1.48E+00	No						
19	Acrylonitrile		YES	0	0					0	0					1.44E-01	2.91E-01	5.81E-02	No						
20	Aldrin		YES	0	0	3.000	3.765	0.757	No	0	0	1.300	1.754	0.351	No	2.81E-05	5.93E-05	1.18E-05	No						
21	Benazone		YES	0	0					0	0					1.55E+01	3.12E+01	6.24E+00	No						
22	Bromofom			0	0					0	0					7.68E+01	1.59E+02	3.18E+01	No						
23	Carbon Tetrachloride		YES	0	0					0	0					8.57E-01	1.93E+00	3.86E-01	No						
24	Chlordane		YES	0	0	2.400	3.028	0.606	No	0	0	0.004	0.006	0.001	No	4.79E-04	9.54E-04	1.91E-04	No						
25	Chlorobenzene			0	0					0	0					9.06E+02	1.22E+03	2.44E+02	No						
26	Chlorodibromo-Methane		YES	0	0					0	0					7.41E+00	1.49E+01	2.99E+00	No						
27	Chloroethane			0	0					0	0														
28	Chloro-Ethyl Methyl Ether			0	0					0	0														
29	Chloroform		YES	0	0					0	0														
30	4,4' - DDO		YES	0	0					0	0														
31	4,4' - DDE		YES	0	0					0	0														
32	4,4' - DDT		YES	0	0					0	0														
33	Dichlorobromo-Methane		YES	0	0					0	0														
34	1,1-Dichloroethane			0	0					0	0														
35	1,2-Dichloroethane		YES	0	0					0	0					2.14E+01	4.31E+01	8.62E+00	No						
36	Trans-1,2-Dichloro-Ethylene			0	0					0	0					5.91E+03	7.97E+03	1.59E+03	No						
37	1,1-Dichloroethylene		YES	0	0					0	0					4.17E+03	8.41E+03	1.68E+03	No						
38	1,2-Dichloropropane			0	0					0	0					8.49E+00	1.15E+01	2.29E+00	No						
39	1,3-Dichloro-Propylene			0	0					0	0					1.23E+01	1.68E+01	3.31E+00	No						
40	Dioxin		YES	0	0	0.240	0.303	0.061	No	0	0	0.656	0.078	0.015	No	3.19E-05	6.30E-05	1.26E-05	No						
41	Ethylbenzene			0	0					0	0					1.24E+03	1.68E+03	3.36E+02	No						
42	Methyl Bromide			0	0					0	0					8.71E+02	1.18E+03	2.35E+02	No						
43	Methyl Chloride			0	0					0	0														
44	Methylene Chloride		YES	0	0					0	0					3.45E+02	6.90E+02	1.40E+02	No						
45	1,1,2,2-Tetrachloro-Ethane		YES	0	0					0	0					2.33E+00	4.71E+00	9.42E-01	No						
46	Tetrachloro-Ethylene		YES	0	0					0	0					1.92E+00	3.87E+00	7.74E-01	No						
47	Toluene			0	0					0	0					8.72E+03	1.10E+04	2.20E+03	No						
48	Toxaphene		YES	0	0	0.730	0.921	0.184	No	0	0	0.0002	0.000	0.000	No	1.62E-04	3.27E-04	6.54E-05	No						
49	Tributyltin (TBT)		YES	0	0	0.450	0.580	0.116	No	0	0	0.072	0.097	0.019	No										
50	1,1,1-Trichloroethane			0	0					0	0														
51	1,1,2-Trichloroethane		YES	0	0					0	0														
52	Trichloroethylene		YES	0	0					0	0					9.10E+00	1.64E+01	3.27E+00	No						
53	Vinyl Chloride		YES	0	0					0	0					1.75E+01	3.53E+01	7.05E+00	No						
54	p-Chloro-4-Cresol		YES	0	0					0	0					1.42E+00	2.87E+00	5.75E-01	No						
55	2-Chlorophenol			0	0					0	0														
56	2,4-Dichlorophenol			0	0					0	0					8.71E+01	1.17E+02	2.35E+01	No						
57	4-Dimethylphenol			0	0					0	0					1.72E+02	2.32E+02	4.64E+01	No						
58	4,6-Dinitro-2-Cresol			0	0					0	0					4.98E+02	6.71E+02	1.34E+02	No						
59	2,4-Dinitrophenol			0	0					0	0														
60	4,6-Dinitro-2-methylphenol		YES	0	0					0	0					3.11E+03	4.20E+03	8.39E+02	No						
61	Dioxin (2,3,7,8-TCDD)		YES	0	0					0	0					1.65E+02	3.34E+02	6.68E+01	No						
62	2-Nitrophenol			0	0					0	0					2.87E-08	5.38E-08	1.08E-08	No						
63	4-Nitrophenol			0	0					0	0														
64	Pentachlorophenol		YES	0	0	4.147	5.232	1.046	No	0	0	3.181	4.292	0.858	No	1.77E+00	3.57E+00	7.13E-01	No						
65	Phenol			0	0					0	0					5.00E-05	6.75E-05	1.35E-05	No						
66	2,4,6-Trichlorophenol		YES	0	0					0	0					1.41E+00	2.89E+00	5.71E-01	No						
67	Acenaphthene			0	0					0	0					5.78E-02	7.80E-02	1.58E-02	No						
68	Acenaphthylene			0	0					0	0														
69	Anthracene			0	0					0	0					2.33E+04	3.15E+04	6.30E+03	No						
70	Benadone			0	0					0	0					1.18E-04	1.59E-04	3.13E-03							

Q _d *C _d + Q _{d2} *C _{d2} + Q _s *C _s = Q _r *C _r								Enter Max Daily Discharge as reported by Applicant (C _{dmax}) ug/d	Enter Avg Daily Discharge as reported by Applicant (C _{davg}) ug/d	Partition Coefficient (Stream / Lake)
ID	Pollutant	Carcinogen "yes"	Type	Background from upstream source (C _{d2}) Daily Max	Background from upstream source (C _{d2}) Monthly Ave	Background (Instream) (C _s) Daily Max	Background (Instream) (C _s) Monthly Ave			
1	Antimony		Metals	0	0	0	0	0	0	
2	Arsenic**	YES	Metals	0	0	0	0	0	0	0.574
3	Beryllium		Metals	0	0	0	0	0	0	
4	Cadmium**		Metals	0	0	0	0	0	0	0.238
5	Chromium / Chromium III**		Metals	0	0	0	0	0	0	0.210
6	Chromium / Chromium VI**		Metals	0	0	0	0	0	0	
7	Copper**		Metals	0	0	0	0	0	0	0.388
8	Lead**		Metals	0	0	0	0	0	0	0.487
9	Mercury**		Metals	0	0	0	0	0	0	0.302
10	Nickel**	YES	Metals	0	0	0	0	0	0	0.505
11	Selenium		Metals	0	0	0	0	0	0	
12	Silver		Metals	0	0	0	0	0	0	
13	Thallium		Metals	0	0	0	0	0	0	
14	Zinc**		Metals	0	0	0	0	10	10	0.330
15	Cyanide		Metals	0	0	0	0	0	0	
16	Total Phenolic Compounds		Metals	0	0	0	0	0	0	
17	Hardness (As CaCO3)		Metals	0	0	0	0	53000	57000	
18	Acrolein		VOC	0	0	0	0	0	0	
19	Acrylonitrile*	YES	VOC	0	0	0	0	0	0	
20	Aldrin	YES	VOC	0	0	0	0	0	0	
21	Benzene*	YES	VOC	0	0	0	0	0	0	
22	Bromoform*	YES	VOC	0	0	0	0	0	0	
23	Carbon Tetrachloride*	YES	VOC	0	0	0	0	0	0	
24	Chlordane	YES	VOC	0	0	0	0	0	0	
25	Chlorobenzene	YES	VOC	0	0	0	0	0	0	
26	Chlorodibromo-Methane*	YES	VOC	0	0	0	0	0	0	
27	Chloroethane	YES	VOC	0	0	0	0	0	0	
28	2-Chloro-Ethyl Vinyl Ether	YES	VOC	0	0	0	0	0	0	
29	Chloroform*	YES	VOC	0	0	0	0	0	0	
30	4,4'-DDD	YES	VOC	0	0	0	0	0	0	
31	4,4'-DDE	YES	VOC	0	0	0	0	0	0	
32	4,4'-DDT	YES	VOC	0	0	0	0	0	0	
33	Dichlorobromo-Methane*	YES	VOC	0	0	0	0	0	0	
34	1,1-Dichloroethane	YES	VOC	0	0	0	0	0	0	
35	1,2-Dichloroethane*	YES	VOC	0	0	0	0	0	0	
36	Trans-1, 2-Dichloro-Ethylene	YES	VOC	0	0	0	0	0	0	
37	1,1-Dichloroethylene*	YES	VOC	0	0	0	0	0	0	
38	1,2-Dichloropropane	YES	VOC	0	0	0	0	0	0	
39	1,3-Dichloro-Propylene	YES	VOC	0	0	0	0	0	0	
40	Dieldrin	YES	VOC	0	0	0	0	0	0	
41	Dibenzene	YES	VOC	0	0	0	0	0	0	
42	Methyl Bromide	YES	VOC	0	0	0	0	0	0	
43	Methyl Chloride	YES	VOC	0	0	0	0	0	0	
44	Methylene Chloride*	YES	VOC	0	0	0	0	0	0	
45	1, 1, 2, 2-Tetrachloro-Ethane*	YES	VOC	0	0	0	0	0	0	
46	Tetrachloro-Ethylene*	YES	VOC	0	0	0	0	0	0	
47	Toluene	YES	VOC	0	0	0	0	0	0	
48	Toxaphene	YES	VOC	0	0	0	0	0	0	
49	Triisobutylene (TBT)	YES	VOC	0	0	0	0	0	0	
50	1, 1, 1-Trichloroethane	YES	VOC	0	0	0	0	0	0	
51	1, 1, 2-Trichloroethane*	YES	VOC	0	0	0	0	0	0	
52	Trichloroethylene*	YES	VOC	0	0	0	0	0	0	
53	Vinyl Chloride*	YES	VOC	0	0	0	0	0	0	
54	Chloro-N-Cresol	YES	Acids	0	0	0	0	0	0	
55	2-Chlorophenol	YES	Acids	0	0	0	0	0	0	
56	4-Chlorophenol	YES	Acids	0	0	0	0	0	0	
57	2,4-Dinitrophenol	YES	Acids	0	0	0	0	0	0	
58	4,6-Dinitro-O-Cresol	YES	Acids	0	0	0	0	0	0	
59	2,4-Dinitrophenol	YES	Acids	0	0	0	0	0	0	
60	4,6-Dinitro-2-methylphenol	YES	Acids	0	0	0	0	0	0	
61	Dioxin (2,3,7,8-TCDD)	YES	Acids	0	0	0	0	0	0	
62	2-Hydrophenol	YES	Acids	0	0	0	0	0	0	
63	4-Hydrophenol	YES	Acids	0	0	0	0	0	0	
64	Pentachlorophenol*	YES	Acids	0	0	0	0	0	0	
65	Phenol	YES	Acids	0	0	0	0	0	0	
66	2, 4, 6-Trichlorophenol*	YES	Acids	0	0	0	0	0	0	
67	Acenaphthylene	YES	Bases	0	0	0	0	0	0	
68	Acenaphthylene	YES	Bases	0	0	0	0	0	0	
69	Anthracene	YES	Bases	0	0	0	0	0	0	
70	Benzo(a)Anthracene*	YES	Bases	0	0	0	0	0	0	
71	Benzo(a)Pyrene*	YES	Bases	0	0	0	0	0	0	
72	Benzo(b)Fluoranthene	YES	Bases	0	0	0	0	0	0	
73	Benzo(g,h,i)Perylene	YES	Bases	0	0	0	0	0	0	
74	Benzo(k)Fluoranthene	YES	Bases	0	0	0	0	0	0	
75	Bis(2-Chloroethoxy) Methane	YES	Bases	0	0	0	0	0	0	
76	Bis(2-Chloroethyl)-Ether*	YES	Bases	0	0	0	0	0	0	
77	Bis(2-Chloro-Propyl)-Ether*	YES	Bases	0	0	0	0	0	0	
78	Bis(2-Ethylhexyl)-Phthalate*	YES	Bases	0	0	0	0	0	0	
79	Bromophenyl Phenyl Ether	YES	Bases	0	0	0	0	0	0	
80	Butyl Benzyl Phthalate	YES	Bases	0	0	0	0	0	0	
81	2-Chlorophthalate	YES	Bases	0	0	0	0	0	0	
82	4-Chlorophenyl Phenyl Ether	YES	Bases	0	0	0	0	0	0	
83	Chrysene*	YES	Bases	0	0	0	0	0	0	
84	Di-N-Butyl Phthalate	YES	Bases	0	0	0	0	0	0	
85	Di-N-Octyl Phthalate	YES	Bases	0	0	0	0	0	0	
86	Dibenz(a,h)Anthracene*	YES	Bases	0	0	0	0	0	0	
87	1,2-Dichlorobenzene	YES	Bases	0	0	0	0	0	0	
88	1,3-Dichlorobenzene	YES	Bases	0	0	0	0	0	0	
89	1,4-Dichlorobenzene	YES	Bases	0	0	0	0	0	0	
90	2,3-Dichlorobenzene*	YES	Bases	0	0	0	0	0	0	
91	Diethyl Phthalate	YES	Bases	0	0	0	0	0	0	
92	Dimethyl Phthalate	YES	Bases	0	0	0	0	0	0	
93	2,4-Dinitrotoluene*	YES	Bases	0	0	0	0	0	0	
94	6-Dinitrotoluene	YES	Bases	0	0	0	0	0	0	
95	1,2-Diphenylhydrazine	YES	Bases	0	0	0	0	0	0	
96	Endosulfan (alpha)	YES	Bases	0	0	0	0	0	0	
97	Endosulfan (beta)	YES	Bases	0	0	0	0	0	0	
98	Endosulfan sulfate	YES	Bases	0	0	0	0	0	0	
99	Endrin	YES	Bases	0	0	0	0	0	0	
100	Endrin Aldehyde	YES	Bases	0	0	0	0	0	0	
101	Fluoranthene	YES	Bases	0	0	0	0	0	0	
102	Hexachlorocyclopentadiene	YES	Bases	0	0	0	0	0	0	
103	Heptachlor Epoxide	YES	Bases	0	0	0	0	0	0	
104	Hexachlorobenzene*	YES	Bases	0	0	0	0	0	0	
105	Hexachlorobutadiene*	YES	Bases	0	0	0	0	0	0	
106	Hexachlorocyclohexane (alpha)	YES	Bases	0	0	0	0	0	0	
107	Hexachlorocyclohexane (beta)	YES	Bases	0	0	0	0	0	0	
108	Hexachlorocyclohexane (gamma)	YES	Bases	0	0	0	0	0	0	
109	Hexachlorocyclopentadiene	YES	Bases	0	0	0	0	0	0	
110	Hexachloroethane	YES	Bases	0	0	0	0	0	0	
111	Indeno(1,2,3-CK)Pyrene*	YES	Bases	0	0	0	0	0	0	
112	Isophorone	YES	Bases	0	0	0	0	0	0	
113	Naphthalene	YES	Bases	0	0	0	0	0	0	
114	Nitrobenzene	YES	Bases	0	0	0	0	0	0	
115	N-Nitrosodi-N-Propylamine*	YES	Bases	0	0	0	0	0	0	
116	N-Nitrosodi-N-Methylamine*	YES	Bases	0	0	0	0	0	0	
117	N-Nitrosodi-N-Phenylamine*	YES	Bases	0	0	0	0	0	0	
118	PCB-1018	YES	Bases	0	0	0	0	0	0	
119	PCB-1221	YES	Bases	0	0	0	0	0	0	
120	PCB-1232	YES	Bases	0	0	0	0	0	0	
121	PCB-1242	YES	Bases	0	0	0	0	0	0	
122	PCB-1248	YES	Bases	0	0	0	0	0	0	
123	PCB-1254	YES	Bases	0	0	0	0	0	0	
124	PCB-1260	YES	Bases	0	0	0	0	0	0	
125	Phenanthrene	YES	Bases	0	0	0	0	0	0	
126	Pyrene	YES	Bases	0	0	0	0	0	0	
127	1, 2, 4-Trichlorobenzene	YES	Bases	0	0	0	0	0	0	

3.5	Enter Q _d = wastewater discharge flow from facility (MGD)
5.415302	Q _d = wastewater discharge flow (cfs) (this value is calculated from the MGD)
0	Enter or estimated, Q _{d2} = background stream flow from upstream source (cfs)
1.08	Enter FQ10, Q _s = background stream flow in cfs above point of discharge
0.81	Enter or estimated, FQ10, Q _s = background stream flow in cfs above point of discharge (FQ10 estimated at 75% of FQ10)
0	Enter flow from upstream discharge Q _{d2} = background stream flow in MGD above point of discharge
3.15	Enter Mean Annual Flow, Q _s = background stream flow in cfs above point of discharge
2.32	Enter FQ2, Q _s = background stream flow in cfs above point of discharge (for LWF class streams)
Enter to Left	Enter Q _s = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
Q _d + Q _{d2} + Q _s	Q _s = resultant in-stream flow, after discharge
Concentrations on other sheets	C _s = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
50	Enter Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham)
6.26 s.u.	Enter Background pH above point of discharge
YES	Enter, is discharge to a stream? "YES" Other option would be to a Lake. (This changes the partition coefficients for the metals)

** Using Partition Coefficients

September 24, 2009

Modified: 8/4/09

Freshwater F&W classification.										Human Health Consumption Fish only (µg/l)									
				Max Daily Discharge as reported by Applicant (C _{max})	Freshwater Acute (µg/l) C _a = 1010				Avg Daily Discharge as reported by Applicant (C _{avg})		Freshwater Chronic (µg/l) C _c = 7Q10				Carcinogen Q _a = Annual Average Non-Carcinogen Q _c = 7Q10				
ID	Pollutant	RP?	Carcinogen yes	Background from upstream source (C ₂₅) Daily Max	Water Quality Criteria (C ₁)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit	RP?	Background from upstream source (C ₂₅) Monthly Ave	Water Quality Criteria (C ₁)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C ₁)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit	RP?		
1	Antimony			0	0	592.334	680.934	136.187	No	0	0	261.324	313.441	62.688	No	3.72E+02	4.45E+02	8.99E+01	No
2	Arsenic		YES	0	0														
3	Beryllium			0	0					0	0								
4	Cadmium			0	0	4.247	4.997	0.999	No	0	0	0.644	0.772	0.154	No				
5	Chromium/ Chromium III			0	0	1537.913	1767.848	353.590	No	0	0	200.651	239.845	47.990	No				
6	Chromium/ Chromium VI			0	0	18.000	18.393	3.679	No	0	0	11.000	13.184	2.638	No				
7	Copper			0	0	18.008	20.723	4.145	No	0	0	12.768	15.311	3.062	No				
8	Lead			0	0	64.531	74.163	14.837	No	0	0	2.515	3.018	0.603	No	1.30E+03	1.56E+03	3.12E+02	No
9	Mercury			0	0	2.400	2.759	0.552	No	0	0	0.012	0.014	0.003	No	4.24E-02	5.09E-02	1.02E-02	No
10	Nickel			0	0	515.824	592.979	118.598	No	0	0	57.292	68.718	13.744	No	9.93E+02	1.19E+03	2.38E+02	No
11	Selenium			0	0	20.000	22.992	4.598	No	0	0	5.000	5.897	1.199	No	2.43E+03	2.82E+03	5.83E+02	No
12	Silver			0	0	0.976	1.122	0.224	No	0	0								
13	Thallium			0	0					0	0					2.74E-01	3.28E-01	6.68E-02	No
14	Zinc			0	10	197.869	228.590	45.378	No	0	19	198.953	238.687	47.733	No	1.48E+04	1.78E+04	3.57E+03	No
15	Cyanide			0	0	22.000	25.291	5.058	No	0	0	5.200	6.237	1.247	No	9.33E+03	1.12E+04	2.24E+03	No
16	Total Phenols Compounds																		
17	Hardness (As CaCO3)				53000						57000								
18	Acrolein			0	0					0	0					5.43E+00	6.51E+00	1.30E+00	No
19	Acrylonitrile		YES	0	0					0	0					1.44E-01	2.28E-01	4.56E-02	No
20	Adrin		YES	0	0	3.000	3.449	0.690	No	0	0	1.300	1.559	0.312	No	2.94E-05	4.65E-05	9.30E-06	No
21	Benzene			0	0					0	0					1.55E+01	2.45E+01	4.89E+00	No
22	Bromofom		YES	0	0					0	0					7.88E+01	1.02E+02	2.49E+01	No
23	Carbon Tetrachloride		YES	0	0					0	0					9.97E-01	1.25E+00	3.05E-01	No
24	Chlordane		YES	0	0	2.400	2.759	0.552	No	0	0	0.004	0.005	0.001	No	4.73E-04	7.09E-04	1.50E-04	No
25	Chlorobenzene			0	0					0	0					9.06E+02	1.05E+03	2.17E+02	No
26	Chlorobromo-Methane		YES	0	0					0	0					7.41E+00	1.17E+01	2.34E+00	No
27	Chloroethane			0	0					0	0								
28	2-Chloro-Ethylvinyl Ether			0	0					0	0								
29	Chloroform		YES	0	0					0	0					1.02E+02	1.61E+02	3.23E+01	No
30	4,4'- DDO		YES	0	0					13E-04	0					1.81E-04	2.87E-04	5.74E-05	No
31	4,4'- DDE		YES	0	0					0	0					1.03E-04	2.03E-04	4.05E-05	No
32	4,4'- DDT		YES	0	0					0	0					1.32E-04	2.03E-04	4.05E-05	No
33	Dichlorobromo-Methane		YES	0	0					0	0					1.00E+01	1.58E+01	3.17E+00	No
34	1,1-Dichloroethane			0	0					0	0								
35	1,1,2-Dichloroethane		YES	0	0					0	0					2.14E+01	3.38E+01	6.76E+00	No
36	Trans-1,2-Dichloro-Ethylene			0	0					0	0					5.91E+03	7.09E+03	1.42E+03	No
37	1,1-Dichloroethylene		YES	0	0					0	0					1.17E+03	6.89E+03	1.32E+03	No
38	1,2-Dichloroethane			0	0					0	0					8.49E+00	1.02E+01	2.04E+00	No
39	1,3-Dichloro-Propylene			0	0					0	0					1.47E+01	2.25E+00		No
40	Dieldrin		YES	0	0	0.240	0.276	0.055	No	0	0	0.058	0.067	0.013	No	3.12E-05	4.84E-05	8.85E-06	No
41	Ethylbenzene			0	0					0	0					1.24E+03	1.49E+03	2.99E+02	No
42	Methyl Bromide			0	0					0	0					8.71E-02	1.04E+03	2.09E+02	No
43	Methyl Chloride			0	0					0	0								
44	Methylene Chloride		YES	0	0					0	0					3.48E+02	5.47E+02	1.09E+02	No
45	1,1,2,2-Tetrachloro-Ethane		YES	0	0					1.9E-00	0					2.33E+00	3.69E+00	7.35E-01	No
46	Tetrachloro-Ethylene		YES	0	0					0	0					1.03E+00	1.60E+01	6.06E-01	No
47	Toluene			0	0					0	0					6.72E+03	1.05E+04	2.09E+03	No
48	Toxaphene		YES	0	0	0.730	0.839	0.168	No	0	0	0.0002	0.000	0.000	No	1.62E-04	2.56E-04	5.12E-05	No
49	Tributyltin (TBT)		YES	0	0	0.480	0.529	0.106	No	0	0	0.072	0.086	0.017	No				
50	1,1,1-Trichloroethane			0	0					0	0								
51	1,1,2-Trichloroethane			0	0					0	0					9.10E+00	1.44E+01	2.88E+00	No
52	Trichloroethylene		YES	0	0					0	0					1.75E+01	2.76E+01	5.63E+00	No
53	Vinyl Chloride		YES	0	0					0	0					1.42E+00	2.25E+00	4.51E-01	No
54	p-Chloro-m-Cresol			0	0					0	0								
55	2-Chlorophenol			0	0					0	0					8.71E+01	1.04E+02	2.09E+01	No
56	2,4-Dichlorophenol			0	0					0	0					1.72E+02	2.08E+02	4.13E+01	No
57	4-Dimethylphenol			0	0					0	0					4.98E+02	5.97E+02	1.19E+02	No
58	4,6-Dinitro-O-Cresol			0	0					0	0								
59	2,4-Dinitrophenol			0	0					0	0								
60	4,6-Dinitro-2-methylphenol		YES	0	0					0	0					3.11E+03	3.73E+03	7.48E+02	No
61	Dioxin (2,3,7,8-TCDD)		YES	0	0					0	0					1.55E+02	2.62E+02	5.23E+01	No
62	2-Nitrophenol			0	0					0	0					2.67E-08	4.22E-08	8.44E-09	No
63	4-Nitrophenol			0	0					0	0								
64	Para-chlorophenol		YES	0	0	4.147	4.787	0.953	No	0	0	3.181	3.818	0.763	No	1.77E+00	2.80E+00	5.59E-01	No
65	Phenol			0	0					0	0					5.00E+05	6.00E+05	1.20E+05	No
66	2,4,6-Trichlorophenol		YES	0	0					0	0					1.41E+00	2.24E+00	4.47E-01	No
67	Acenaphthene			0	0					0	0					5.79E+02	6.84E+02	1.39E+02	No
68	Acenaphthylene			0	0					0	0								
69	Anthracene			0	0					0	0					2.33E+04	2.80E+04	5.60E+03	No
70	Benzidine			0	0					0	0					1.16E-04	1.39E-04	2.78E-05	No
71	Benzo(A)Anthracene		YES	0	0					0	0					1.07E-02	1.69E-02	3.37E-03	No
72	Benzo(A)Pyrene		YES	0	0					0	0					1.07E-02	1.69E-02	3.37E-03	No
73	3,4-Benzo-Fluoranthene			0	0					0	0					1.07E-02	1.69E-02	3.37E-03	No
74	Benzo(GH)Perylene			0	0					0	0					1.07E-02	1.69E-02	3.37E-03	No
75	Benzo(K)fluoranthene			0	0					0	0					1.07E-02	1.69E-02	3.37E-03	No
76	Bis (2-Chloroethyl) Methane			0	0					0	0								
77	Bis (2-Chloroethyl)-Ether		YES	0	0					0	0					3.07E-01	4.86E-01	9.72E-02	No
78	Bis (2-Chloro-Propyl) Ether			0	0					0	0					3.78E+04	4.63E+04	9.06E+03	No
79	Bis (2-Ethylhexyl) Phthalate		YES	0	0					0	0					1.28E+00	2.03E+00	4.06E-01	No
80	4-Bromophenyl Phenyl Ether			0	0					0	0								
81	Butyl Benzyl Phthalate			0	0					0	0					1.13E+03	1.35E+03	2.70E+02	No
82	2-Chloroaniline			0	0					0	0					9.24E+02	1.11E+03	2.22E+02	No
83	4-Chlorophenyl Phenyl Ether			0	0					0	0								
84	Chrysene		YES	0	0					0	0					1.07E+02	1.69E+02	3.37E-03	No
85	Di-N-Butyl Phthalate			0	0					0	0					2.62E+03	3.14E+03	6.29E+02	No
86	Di-N-Octyl Phthalate			0	0					0	0								
87	Dibenz(A,H)Anthracene		YES	0	0					0	0					1.07E-02	1.69E-02	3.37E-03	No
88	1,2-Dichlorobenzene			0	0					0	0					7.55E+02	9.06E+02	1.81E+02	No
89	1,3-Dichlorobenzene			0	0					0	0					5.67E+02	6.75E+02	1.35E+02	No
90	1,4-Dichlorobenzene			0	0					0	0					1.12E+02	1.35E+02	2.70E+01	No
91	3,3-Dichlorobenzene		YES	0	0					1.65E-02	2.85E-02					2.56E+04	3.07E+04	6.13E+03	No

FACT SHEET
APPLICATION FOR
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
PERMIT TO DISCHARGE TREATED WASTEWATERS
TO WATERS OF THE STATE OF ALABAMA

Date: September 24, 2009

Prepared By: Marla Smith

NPDES Permit No. AL0049042

1. SYNOPSIS OF APPLICATION

a. Name and Address of Applicant and Location if Different From Mailing Address

<u>Applicant Name and Address:</u>	<u>Facility Location:</u>
THE UTILITIES BOARD OF THE CITY OF	Foley WWTP
FOLEY	1000 Greentree Lane
POST OFFICE BOX 2050	Foley, Alabama 36536
FOLEY AL 36536	

b. Description of Applicant's Facility or Activity Generating the Discharge

Municipal Wastewater Treatment Plant

For the Outfall latitude and longitude see the permit application

c. Applicant's Receiving Waters

<u>Receiving Waters</u>	<u>Classification</u>
Wolf Creek	Fish and Wildlife

d. Quantitative Description of Proposed Discharges

See attached draft permit and permit application

2. PROPOSED DISCHARGE LIMITATIONS

See attached draft permit

3. STATEMENT OF BASIS FOR PERMIT LIMITATIONS

See attached permit rationale

4. PROCEDURES FOR THE FORMULATION OF FINAL DETERMINATIONS

a. Comment Period

The Alabama Department of Environmental Management proposes to issue an NPDES permit to this applicant subject to the effluent limitations and special conditions outlined above. These determinations are tentative.

Interested persons are invited to submit written comments on the permit application or on proposed determinations to the following address:

Russell A. Kelly, Chief
Permits and Services Division
Alabama Department of Environmental Management
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059
(334) 271-7714

All comments received prior to the closure of the public notice period (see attached public notice) will be considered in the formulation of final determinations with regard to this application.

b. Public Hearing

A written request for a public hearing may also be filed with the public notice period and must state the nature of the issues proposed to be raised in the hearing. The Director shall hold a public hearing whenever it is found, on the basis of hearing requests, that there exists a significant degree of public interest in the permit application or draft permit or group of permits. A request for a hearing should be filed with the Department at the following address:

Russell A. Kelly, Chief
Permits and Services Division
Alabama Department of Environmental Management
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059
(334) 271-7714

The Director may hold a public hearing if he determines that useful information and data may be obtained thereby. Public notice of such a hearing will be published at least 30 days prior to the hearing in a newspaper having general circulation in the geographical area of the discharge and will be sent to those on the ADEM mailing list at least thirty days prior to the hearing.

c. Issuance of the Permit

Upon the expiration of the comment period and, if applicable, completion of the public hearing process a response to all significant comments will be prepared. After consideration of all comments received during the notice period or as the result of a public hearing, the response to comments, and of the requirements of the Alabama Water Pollution Control Act and appropriate regulations, the Director will make a final decision regarding permit issuance. **The permit record, including the response to comments, will be available to the public and an appointment to review the record may be made by writing the Permits and Services Division at the above address.**

Unless a request for a stay of a permit or permit provision is granted, the proposed permit contained in the Director's determination shall be issued and effective; and will be the final action of the Alabama Department of Environmental Management.

d. Appeal Procedures

Any person adversely affected by the Director's final decision may submit an appeal or a request for a stay of the permit or one or more provisions of the permit. Such requests should be received by the

Environmental Management Commission within thirty days of issuance of the permit. Requests should be submitted to the Chairperson at the following address:

Alabama Environmental Management Commission
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059

All requests must:

- (i) State the name, mailing address and telephone number of the person making such request;
- (ii) Identify the interest of the appellant which is affected by the proposed issuance, denial or modification of the permit contained in the determination of the Director, and explain how and to what extent that interest would be directly and adversely affected by such determination;
- (iii) Identify any persons whom the request represents;
- (iv) State with particularity the issues proposed to be considered at the hearing;
- (v) Include any terms and conditions with which the appellant proposes to revise or replace the determinations of the Director;
- (vi) State the name, mailing address and telephone number of the attorney for the person making the request, if represented by an attorney; and
- (vii) An original signature of the person making the request or such person's attorney.

The Commission may rule on the appeal or may hold an appeals hearing prior to making a ruling.